

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:20:57 ON 27 NOV 2007

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STRUCTURE FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

DICTIONARY FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

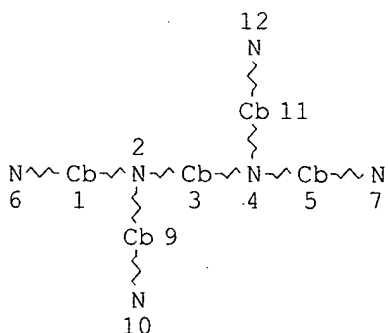
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d 170

L70 HAS NO ANSWERS

L70 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 6

NSPEC IS RC AT 7

NSPEC IS RC AT 10

NSPEC IS RC AT 12

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

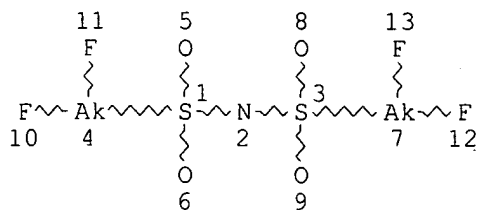
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

=> d 150 stat que

L48 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 4
 CONNECT IS M1 RC AT 7
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L50 2604 SEA FILE=REGISTRY CSS FUL L48

100.0% PROCESSED 4028 ITERATIONS
 SEARCH TIME: 00.00.01

2604 ANSWERS

=> d que 128

L28 360 SEA FILE=REGISTRY ABB=ON PLU=ON (NSC2S OR NSC3S OR NSC4S OR
 NSC5S OR NSC6S OR NSC7S OR NSC8S OR NSC9S OR NSC10S)/ES

=> d que 129

L29 13 SEA FILE=REGISTRY ABB=ON PLU=ON NSCS/ES

=> d his

(FILE 'HOME' ENTERED AT 15:44:44 ON 27 NOV 2007)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:45:01 ON 27 NOV 2007

L1 1 S US20060073407/PN OR (US2005-535671# OR WO2003-JP14642 OR JP20
 E YAMANOBE/AU
 L2 11 S E47,E54,E66
 E SUSUMU/AU
 L3 5 S E47
 E TAMURA/AU.
 L4 2 S E3
 E TAMURA M/AU
 L5 591 S E3,E4,E19
 E TAMURA NAME/AU
 L6 93 S E4
 E MASA AKI/AU
 L7 2 S E3
 E YAMAGUCHI/AU
 L8 3 S E3
 E YAMAGUCHI NAME/AU
 L9 85 S E4
 E YAMAGUCHI Y/AU

L10 828 S E3,E4
E YAMAGUCHI YO/AU
L11 51 S E13
E YOJI/AU
L12 1 S E3
E YAMAMOTO/AU
L13 5 S E3
E YAMAMOTO H/AU
L14 1548 S E3-E7
E YAMAMOTO HI/AU
L15 544 S E29,E30
E YAMAMOTO NAME/AU
L16 186 S E4
E HIDEO/AU
L17 3 S E3
E J CARLIT/CO
E JAP CARLIT/CO
E JAPAN CARLIT/CO
L18 771 S E1-E5
E BACK E1
E BACK E1
E JAPAN CARLIT/CO
E E5+ALL
L19 780 S E2-E5/CO, PA, CS
E JAPAN CARLIT/PA, CS
L20 752 S E5-E22
E JAPAN CAR/PA, CS
L21 737 S E26-E36
E NIPPON CARIT/PA, CS
L22 12 S E5-E12
SEL RN L1

FILE 'REGISTRY' ENTERED AT 15:51:07 ON 27 NOV 2007

L23 19 S E1-E19
L24 11 S L23 AND (N AND S AND F AND O)/ELS
L25 2 S L24 AND CCS/CI
L26 9 S L24 NOT L25
L27 4 S 98837-98-0 OR 129318-46-3 OR 146063-77-6 OR 84246-29-7
L28 360 S (NSC2S OR NSC3S OR NSC4S OR NSC5S OR NSC6S OR NSC7S OR NSC8S
L29 13 S NSCS/ES
L30 10 S L29 AND F/ELS
L31 9 S L30 NOT NC5/ES
L32 230 S L28 AND F/ELS
L33 228 S L32 NOT L27
L34 123 S L32 NOT (146063-77-6 OR 84246-29-7)/CRN
L35 51 S L34 AND 1/NC
L36 37 S L35 AND 1/N AND 2/S
L37 14 S L36 AND (C3HF6NO4S2 OR C3F7NO4S2 OR C9H5F6NO4S2 OR C5HF10NO4S
L38 12 S L37 AND 1/NR
SEL RN 3 9 10
L39 3 S E20-E22
L40 9 S L38 NOT L39
L41 72 S L34 NOT L35
SEL RN L40
L42 132 S E23-E31/CRN
L43 25 S L42 AND L41
L44 47 S L41 NOT L43
L45 9 S L44 AND TRIFLUOROMETHYL
L46 38 S L44 NOT L45
L47 10 S L46 AND (H3N OR HO OR CA OR ER OR EU OR MG OR LI OR ND OR LA

L48 STR
 L49 50 S L48 CSS SAM
 L50 2604 S L48 CSS FUL
 L51 2602 S L50 NOT L27
 L52 703 S L50 NOT (98837-98-0 OR 129318-46-3)/CRN
 L53 1 S 82113-65-3
 L54 507 S L52 NOT 82113-65-3/CRN
 L55 1 S 152894-10-5
 L56 489 S L54 NOT 152894-10-5/CRN
 L57 156 S L56 AND 1/NC
 L58 66 S L57 AND 1/N AND 2/S AND 4/O
 L59 62 S L58 NOT PMS/CI
 L60 60 S L59 NOT (C6/ES OR CL/ELS)
 L61 333 S L56 NOT L57
 L62 88 S L27,L31,L40,L47,L53,L55,L60
 L63 75 S L62 AND 1/NC
 L64 13 S L62 NOT L63
 L65 2 S 84246-32-2 OR 196205-99-9
 L66 76 S L63,L65

SEL RN
 L67 2450 S E32-E107/CRN
 L68 189 S L61 AND L67
 L69 2526 S L62-L68
 L70 STR
 L71 1 S L70 SAM SUB=L69
 L72 2766 S L50,L69
 L73 1 S L70 SAM SUB=L72
 L74 28 S L70 FUL SUB=L72
 SAV TEMP L72 VERD535A/A
 SAV TEMP L74 VERD535B/A
 L75 19 S L74 AND C2F6NO4S2
 L76 9 S L74 NOT L75

FILE 'HCAPLUS' ENTERED AT 16:19:33 ON 27 NOV 2007

L77 5 S L76
 L78 42 S L75
 L79 5 S L77 AND L78
 L80 2 S L79 AND L1-L22
 L81 5 S L79,L80
 L82 0 S L81 AND PY<=2002 NOT P/DT
 L83 1 S L81 AND (PY<=2002 OR PRY<=2002 OR AY<=2002) AND P/DT
 L84 2 S L80,L83

FILE 'USPATFULL' ENTERED AT 16:20:45 ON 27 NOV 2007

L85 2 S L76

FILE 'REGISTRY' ENTERED AT 16:20:57 ON 27 NOV 2007

=> fil uspatful

FILE 'USPATFULL' ENTERED AT 16:21:50 ON 27 NOV 2007

CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 27 Nov 2007 (20071127/PD)

FILE LAST UPDATED: 27 Nov 2007 (20071127/ED)

HIGHEST GRANTED PATENT NUMBER: US7302709

HIGHEST APPLICATION PUBLICATION NUMBER: US2007271667

CA INDEXING IS CURRENT THROUGH 27 Nov 2007 (20071127/UPCA)

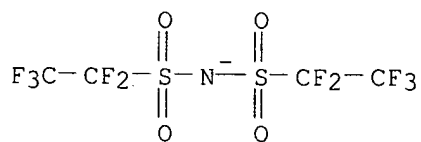
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 27 Nov 2007 (20071127/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2007

=> d 185 bib ab hitstr tot

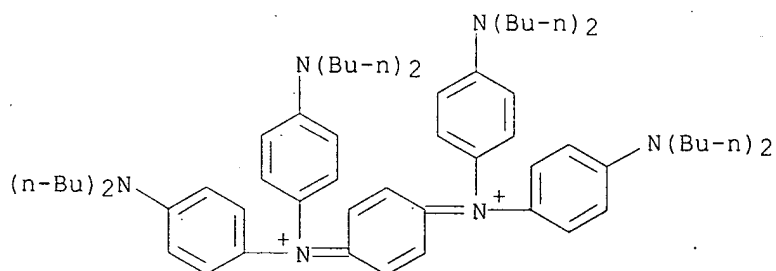
L85 ANSWER 1 OF 2 USPATFULL on STN
 AN 2006:86407 USPATFULL
 TI Coloring matter absorbing near-infrared light and filter for cutting off
 near-infrared ray
 IN Yamanobe, Susumu, Gunma, JAPAN
 Tamura, Masaaki, Gunma, JAPAN
 Yamamoto, Hideo, Gunma, JAPAN
 PA Japan Carlit Co., Ltd., Tokyo, JAPAN, 101-0024 (non-U.S. corporation)
 PI US 2006073407 A1 20060406
 AI US 2003-535671 A1 20031118 (10)
 WO 2003-JP14642 20031118
 20050519 PCT 371 date
 PRAI JP 2002-339110 20021122
 DT Utility
 FS APPLICATION
 LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,
 ALEXANDRIA, VA, 22314, US
 CLMN Number of Claims: 29
 ECL Exemplary Claim: 1
 DRWN 1 Drawing Page(s)
 LN.CNT 536
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A coloring matter absorbing a near-infrared ray which comprises a
 diimonium salt containing a sulfonimide as an anion moiety, represented
 by the general formula (1): ##STR1## wherein R may be the same or
 different and represents a moiety selected from the group consisting of
 an alkyl group, a halogenated alkyl group, a cyanoalkyl group, an aryl
 group, a hydroxyl group, a phenyl group, and a phenylalkylene group, and
 R.sup.1 and R.sup.2 may be the same or different and each represent a
 fluoroalkyl group, or together form a fluoroalkylene group. The
 coloring matter absorbing a near-infrared ray is excellent in the
 resistance to heat and moisture, and thus exhibits an ability of
 absorbing a near-infrared ray not lowering for a long period of time. A
 filter for cutting off a near-infrared ray manufactured by using the
 coloring matter can be advantageously used for wide applications such as
 a plasma display panel, an optical lens, a glass for an automobile, and
 a glass for a building material, due to its excellent resistance to heat
 and moisture.
 IT 700876-21-7P 700876-26-2P 700876-27-3P
 (diimonium sulfonimides absorbing near-IR ray and filters for cutting
 off near-IR ray)
 RN 700876-21-7 USPATFULL
 CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-
 [4-(dibutylamino)phenyl]-, salt with 1,1,2,2,2-pentafluoro-N-
 [(pentafluoroethyl)sulfonyl]ethanesulfonamide (1:2) (CA INDEX NAME)
 CM 1
 CRN 129318-46-3
 CMF C4 F10 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



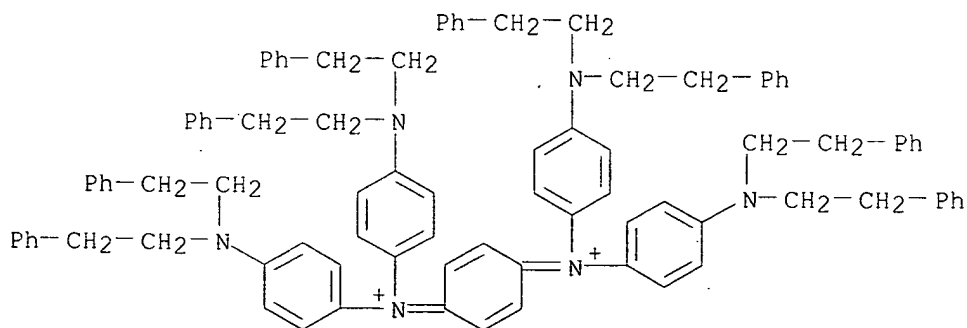
RN 700876-26-2 USPATFULL

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diyliidenebis[4-[bis(2-phenylethyl)amino]-N-[4-[bis(2-phenylethyl)amino]phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetraoxide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 700876-22-8

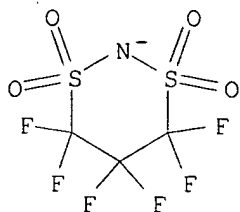
CMF C94 H92 N6



CM 2

CRN 146063-77-6

CMF C3 F6 N O4 S2



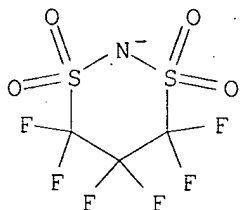
RN 700876-27-3 USPATFULL

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-[4-(dibutylamino)phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetroxide (1:2). (9CI) (CA INDEX NAME)

CM 1

CRN 146063-77-6

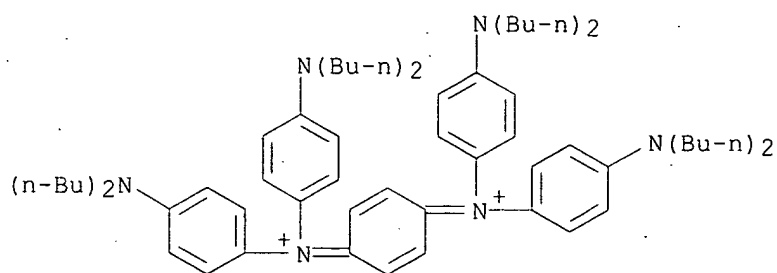
CMF C3 F6 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



L85 ANSWER 2 OF 2 USPATFULL on STN

AN 2005:189049 USPATFULL

TI Optical filter and display using the same

IN Nakatsugawa, Yuji, Tokyo-To, JAPAN

PI US 2005163958 A1 20050728

AI US 2004-972086 A1 20041022 (10)

PRAI JP 2003-383685 20031113

JP 2003-403851 20031202

JP 2004-74119 20040316

DT Utility
 FS APPLICATION
 LREP HARNESS, DICKY & PIERCE, P.L.C., P.O. BOX 828, BLOOMFIELD HILLS, MI,
 48303, US
 CLMN Number of Claims: 13
 ECL Exemplary Claim: 1
 DRWN 1 Drawing Page(s)
 LN.CNT 1740

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides an optical filter possessing excellent near infrared shielding properties. The optical filter has a laminate structure comprising at least a transparent substrate and a near infrared absorptive layer, which is formed of an acrylic resin containing a near infrared absorptive colorant capable of absorbing a near infrared radiation, stacked on top of each other. The acrylic resin has a birefringence value of 0 (zero) to 15 nm.

IT 860440-95-5

(colorant; optical filter and display containing)

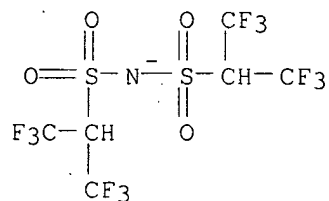
RN 860440-95-5 USPATFULL

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-[4-(dibutylamino)phenyl]-, salt with 2,2,2-trifluoro-1-(trifluoromethyl)-N-[[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]sulfonyl]ethanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 219545-64-9

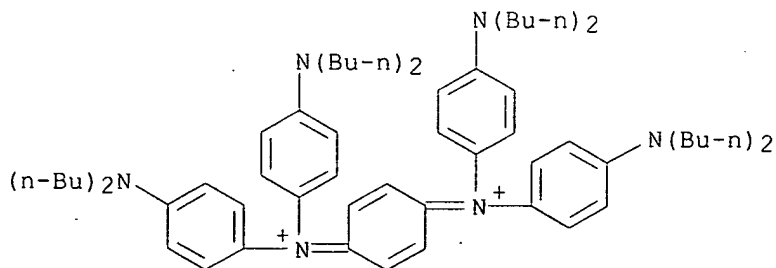
CMF C6 H2.F12 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 16:21:59 ON 27 NOV 2007

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FILE COVERS 1907 - 27 Nov 2007 VOL 147 ISS 23

FILE LAST UPDATED: 26 Nov 2007 (20071126/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details..

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l84 bib abs hitstr retable tot

L84 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1240302 HCAPLUS

DN 143:479357

TI Near IR-absorbing dyes with good heat and hydrolysis resistance and near IR filters therewith

IN **Tamura, Masaaki**; Yamaguchi, Hiroshi; **Yamamoto, Hideo**

PA **Japan Carlit Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 17 pp.

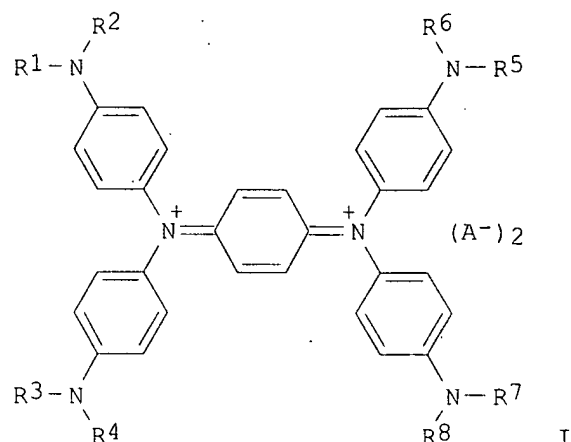
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2005325292	A	20051124	JP 2004-146317	20040517
PRAI	JP 2004-146317		20040517		
OS	MARPAT 143:479357				
GI					



AB The dyes contain diiminium salts I [R1-R8 = (halo)alkyl, alkylene, cyanoalkyl; OH, (alkyl)sulfonato, nitro, amino, alkoxy, aryl, halo, phenylalkyl; A- = anion]. Near-IR filters containing the dyes are useful for plasma display panels, automobile windows, lenses, etc. Thus, 63 parts 1-iodo-4,4,4-trifluorobutane and 10 parts N,N,N',N'-tetrakis(p-aminophenyl)-p-phenylenediamine were reacted in DMF at 120° in the presence of K2CO3 to give N,N,N',N'-tetrakis[p-di(4,4,4-trifluorobutyl)aminophenyl]-p-phenylenediamine, which was reacted with Ag hexafluoroantimonate to give a dye. A coating containing the dye showed absorption maximum 1048 nm and molar absorption coefficient ϵ 104000 L/(cm·mol).

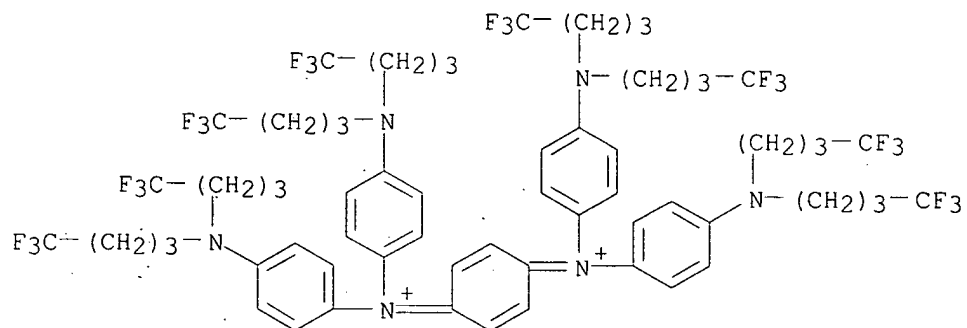
IT **869548-81-2P**, N,N,N',N'-Tetrakis[p-di(4,4,4-trifluorobutyl)aminophenyl]-p-phenylenediiminium bis[bis(trifluoromethanesulfonyl)imideate] **869548-82-3P**, N,N,N',N'-Tetrakis[p-di(2,2,2-trifluoroethyl)aminophenyl]-p-phenylenediiminium bis[bis(trifluoromethanesulfonyl)imideate] **869548-83-4P**, N,N,N',N'-Tetrakis[p-di(perfluorobutyl)aminophenyl]-p-phenylenediiminium bis[bis(trifluoromethanesulfonyl)imideate] **869548-84-5P**, N,N,N',N'-Tetrakis[p-di(4,4,4-trichlorobutyl)aminophenyl]-p-phenylenediiminium bis[bis(trifluoromethanesulfonyl)imideate] **869548-85-6P**, N,N,N',N'-Tetrakis[p-di(4,4,4-trifluorobutyl)aminophenyl]-p-phenylenediiminium bis(cyclic 1,3-perfluoropropanedisulfonimideate) **869548-86-7P**, N,N,N',N'-Tetrakis[p-di(2,2,2-trifluoroethyl)aminophenyl]-p-phenylenediiminium bis(cyclic 1,3-perfluoropropanedisulfonimideate) **869548-87-8P**, N,N,N',N'-Tetrakis[p-di(perfluorobutyl)aminophenyl]-p-phenylenediiminium bis(cyclic 1,3-perfluoropropanedisulfonimideate) **869548-88-9P**, N,N,N',N'-Tetrakis[p-di(4,4,4-trichlorobutyl)aminophenyl]-p-phenylenediiminium bis(cyclic 1,3-perfluoropropanedisulfonimideate)
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dyes; diiminium salt-type near IR-absorbing dyes with good heat and moisture resistance for near-IR filters)

RN **869548-81-2** HCAPLUS

CN 1,4-Cyclohexadiene-3,6-diaminium, N3,N3,N6,N6-tetrakis[4-[bis(4,4,4-trifluorobutyl)amino]phenyl]-, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

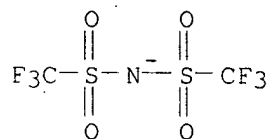
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CRN 869548-75-4
CMF C62 H68 F24 N6



CM 2

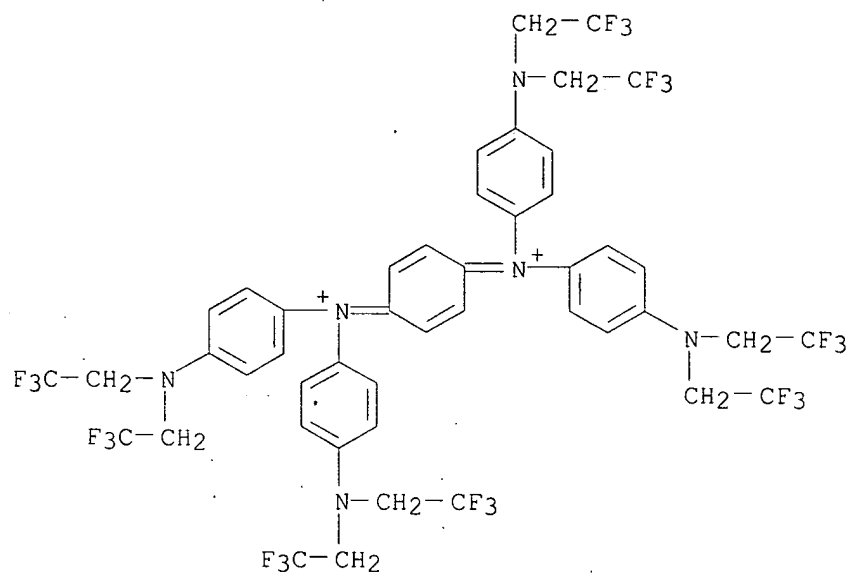
CRN 98837-98-0
CMF C2 F6 N O4 S2



RN 869548-82-3 HCAPLUS
CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(2,2,2-trifluoroethyl)amino]-N-[4-[bis(2,2,2-trifluoroethyl)amino]phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

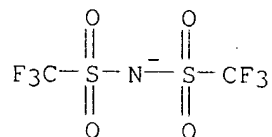
CRN 159253-03-9
CMF C46 H36 F24 N6



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



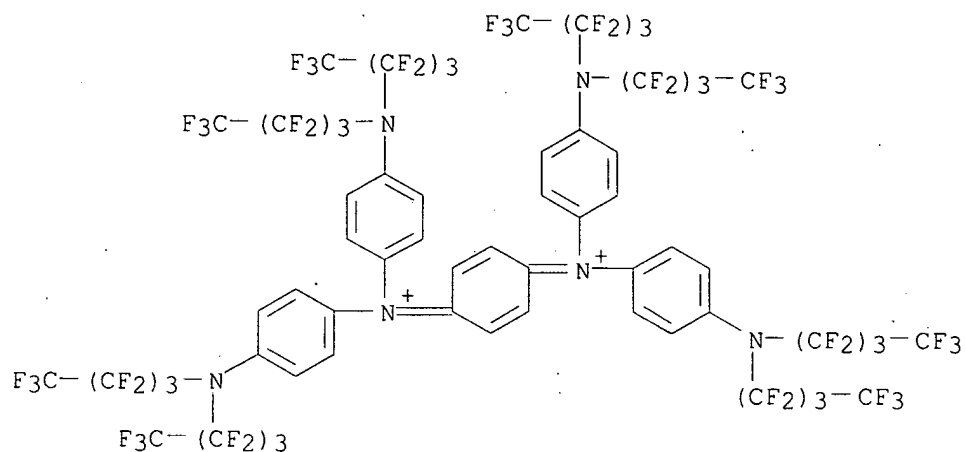
RN 869548-83-4 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(nonafluorobutyl)amino]-N-[4-[bis(nonafluorobutyl)amino]phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 869548-77-6

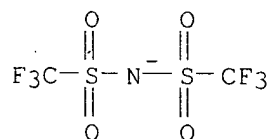
CMF C62 H20 F72 N6



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



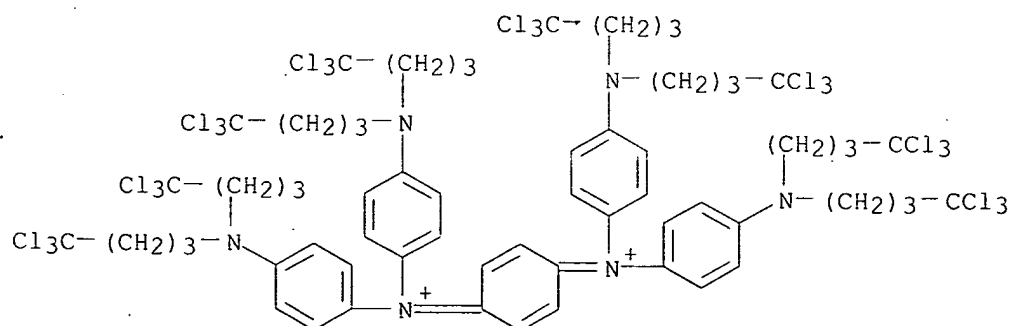
RN 869548-84-5 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(4,4,4-trichlorobutyl)amino]-N-[4-[bis(4,4,4-trichlorobutyl)amino]phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 869548-79-8

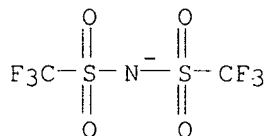
CMF C62 H68 Cl24 N6



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



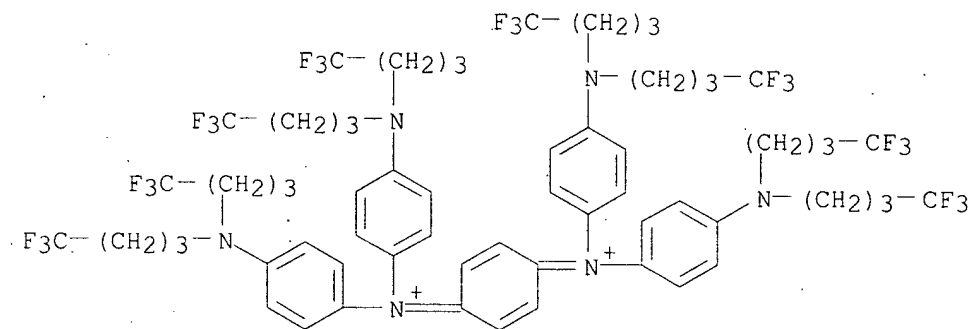
RN 869548-85-6 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(4,4,4-trifluorobutyl)amino]-N-[4-[bis(4,4,4-trifluorobutyl)amino]phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetroxide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 869548-75-4

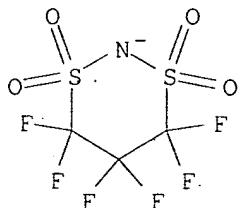
CMF C62 H68 F24 N6



CM 2

CRN 146063-77-6

CMF C3 F6 N O4 S2



RN 869548-86-7 HCAPLUS

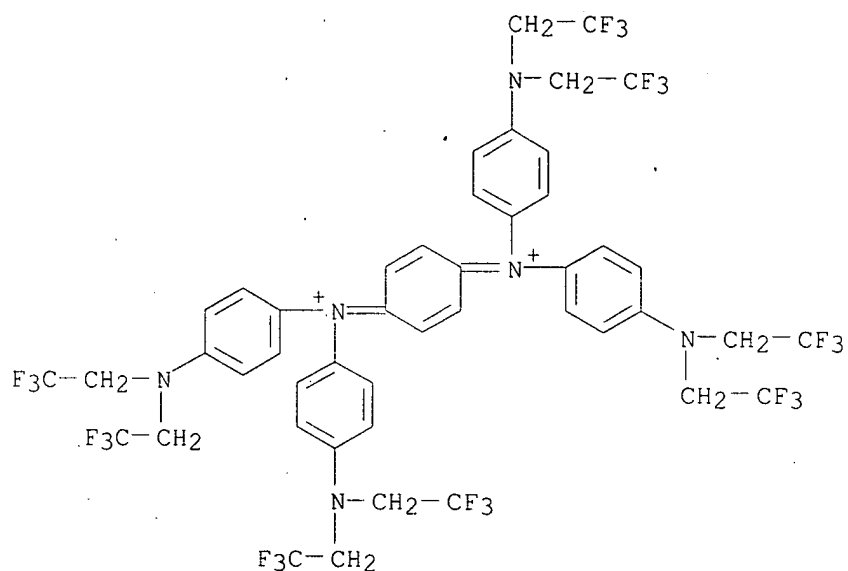
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(1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 159253-03-9

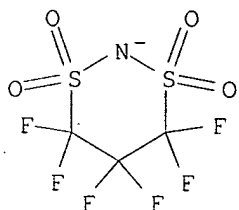
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CM 2

CRN 146063-77-6

CMF C3 F6 N O4 S2



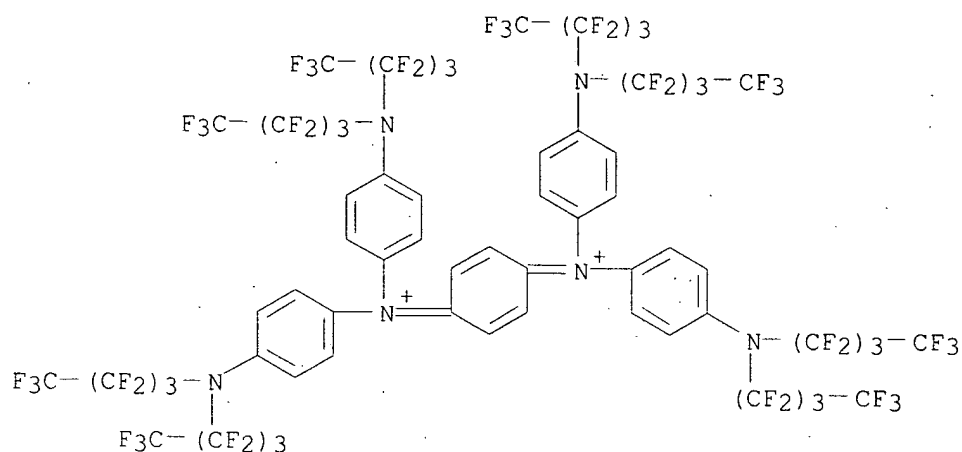
RN 869548-87-8 HCAPLUS

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CM 1

CRN 869548-77-6

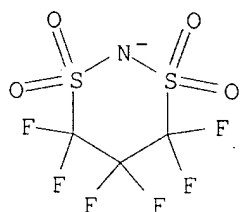
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CM 2

CRN 146063-77-6

CMF C3 F6 N O4 S2



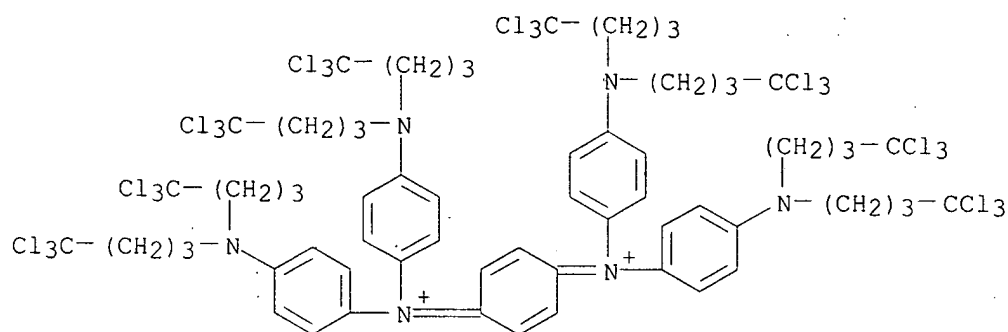
RN 869548-88-9 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(4,4,4-trichlorobutyl)amino]-N-[4-[bis(4,4,4-trichlorobutyl)amino]phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetraoxide (1:2) (9CI) (CA INDEX NAME)

CM 1

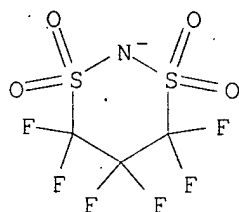
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CMF C62 H68 Cl24 N6



CM 2

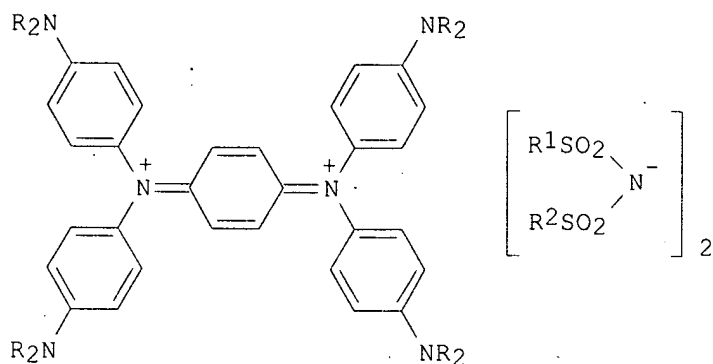
CRN 146063-77-6
CMF C3 F6 N O4 S2



L84 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:467964 HCAPLUS
DN 141:39455
TI Coloring matters absorbing near-infrared ray and filters for cutting off near-infrared ray
IN Yamanobe, Susumu; Tamura, Masaaki; Yamaguchi, Yoji; Yamamoto, Hideo
PA Japan Carlit Co., Ltd., Japan
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004048480	A1	20040610	WO 2003-JP14642	20031118 <--
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RW:			BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
AU 2003280844	A1	20040618	AU 2003-280844	20031118 <--

EP 1564260 A1 20050817 EP 2003-772847 20031118 <--
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 CN 1714126 A 20051228 CN 2003-80103815 20031118 <--
 US 2006073407 A1 20060406 US 2005-535671 20050519 <--
 PRAI JP 2002-339110 A 20021122 <--
 WO 2003-JP14642 W 20031118 <--
 OS MARPAT 141:39455
 GI



I

AB Diimmonium sulfonimides (I) absorb near IR, where R = alkyl group, halogenated alkyl, cyanoalkyl, aryl group, OH, Ph, phenylalkylene groups, same or different, R1 and R2 are fluoroalkyls, same or different, and fluoroalkylenes. Thus, a polymethacrylic resin film was coated with a solution containing Thermolac LP 45M 6, bis(trifluoromethanesulfon) imide acid N,N, N',N'-tetrakis(p-dibutylaminophenyl)-p-phenylenediimmonium 2, MEK 25, and toluene 13 parts and dried to prepare a filter.

IT 536741-75-0P 700876-21-7P 700876-23-9P
 700876-25-1P 700876-26-2P 700876-27-3P
 701909-20-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (diimmonium sulfonimides absorbing near-IR ray and filters for cutting off near-IR ray)

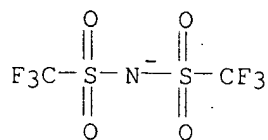
RN 536741-75-0 HCAPLUS

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CM 1

CRN 98837-98-0

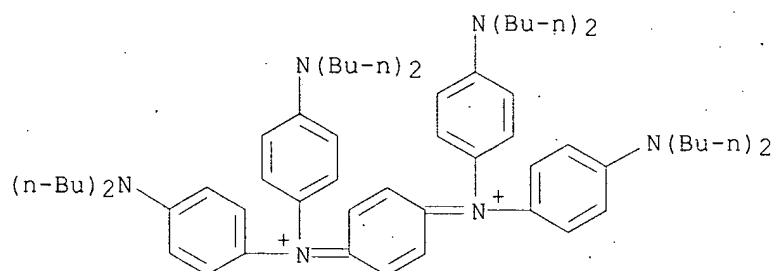
CMF C2 F6 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



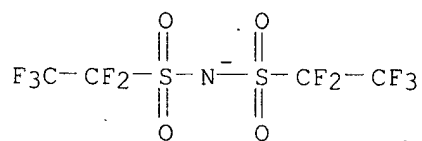
RN 700876-21-7 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-[4-(dibutylamino)phenyl]-, salt with 1,1,2,2,2-pentafluoro-N-[(pentafluoroethyl)sulfonyl]ethanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 129318-46-3

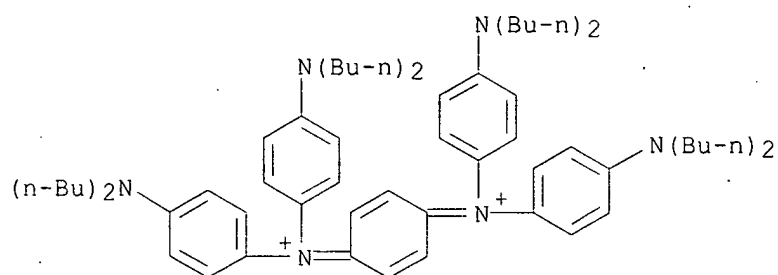
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CM 2

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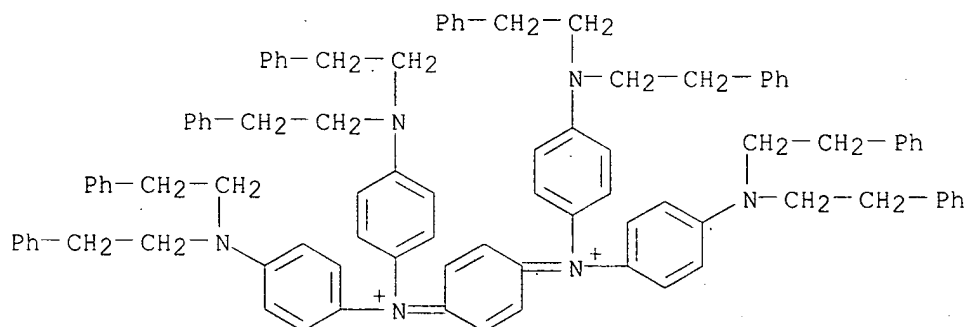
CMF C62 H92 N6



RN 700876-23-9 HCAPLUS
 CN 2,5-Cyclohexadiene-1,4-diaminium, N1,N1,N4,N4-tetrakis[4-{bis(2-phenylethyl)amino}phenyl]-, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

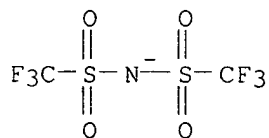
CM 1

CRN 700876-22-8
 CMF C94 H92 N6



CM 2

CRN 98837-98-0
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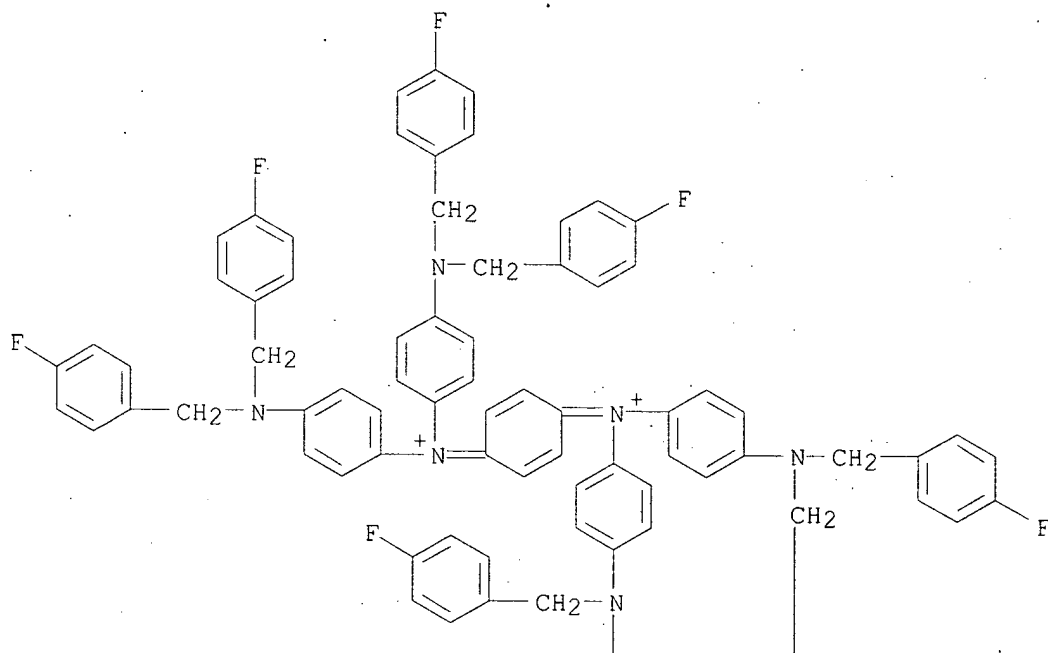


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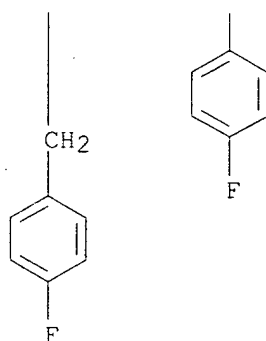
CM 1

CRN 700876-24-0
CMF C86 H68 F8 N6

PAGE 1-A

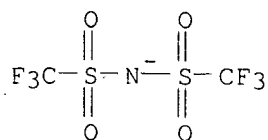


PAGE 2-A



CM 2

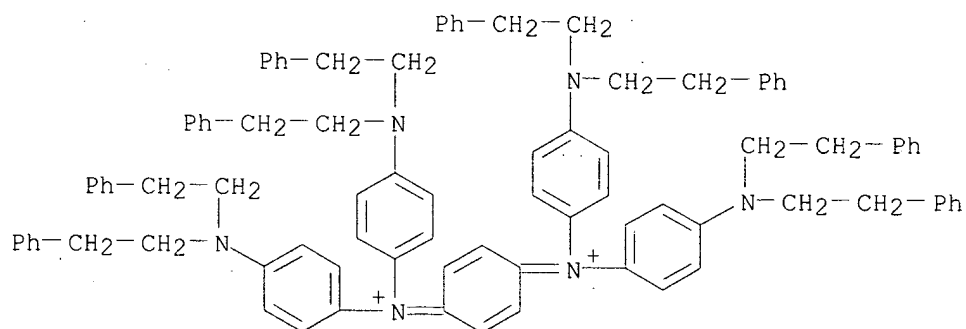
CRN 98837-98-0
CMF C2 F6 N O4 S2



RN 700876-26-2 HCAPLUS
 CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(bis(2-phenylethyl)amino)-N-[4-(bis(2-phenylethyl)amino)phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetraoxide (1:2) (9CI) (CA INDEX NAME)

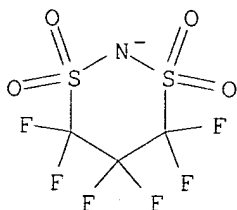
CM 1

CRN 700876-22-8
 CMF C94 H92 N6



CM 2

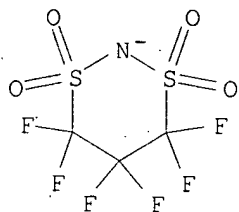
CRN 146063-77-6
 CMF C3 F6 N O4 S2



RN 700876-27-3 HCAPLUS
 CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-[4-(dibutylamino)phenyl]-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetraoxide (1:2) (9CI) (CA INDEX NAME)

CM 1

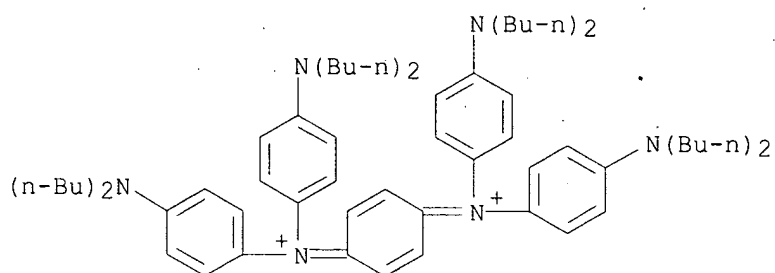
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CM 2

CRN 47911-98-8

CMF C62 H92 N6



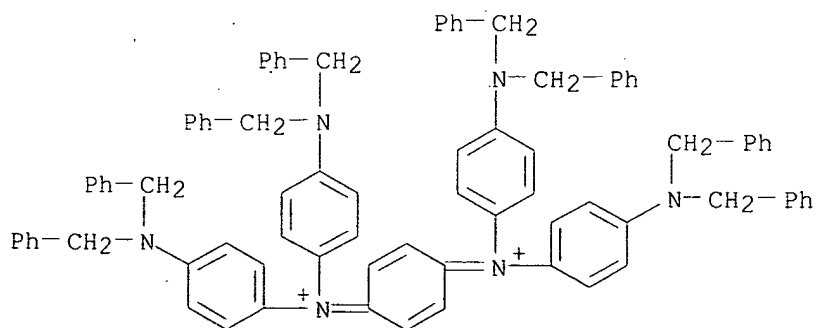
RN 701909-20-8 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(phenylmethyl)amino]-N-[4-[bis(phenylmethyl)amino]phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 701909-19-5

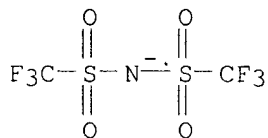
CMF C86 H76 N6



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Nippon Kayaku Co Ltd	1998			JP 10-180922 A	HCAPLUS

=> => s 181 not 184

L86 3 L81 NOT L84

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L86 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2007:167051 HCAPLUS

DN 146:238935

TI Near IR-absorbing aminium compounds having good alcohol solubility and their uses/applications

IN Kurata, Takaaki; Tomonaga, Hiroyuki; Morita, Ryotaro

PA Nippon Kayaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16pp.

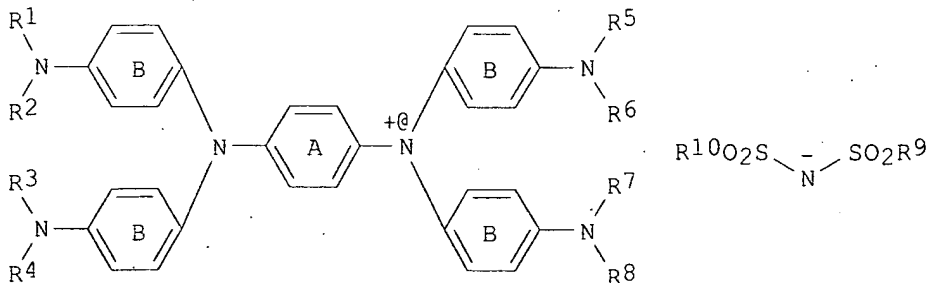
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

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PI	JP 2007039343	A	20070215	JP 2005-222386	20050801
PRAI	JP 2005-222386		20050801		
OS	MARPAT 146:238935				
GI					



I

AB Title compds. are represented by I (R1-R8 = H, aliphatic hydrocarbyl; R9, R10 = aliphatic hydrocarbyl; ring A and B may have substituents). Resin compns. containing the compds., near-IR filters, and optical recording media therefrom, are also claimed. The materials/products above have excellent

light resistance on repetitive uses.

IT 536741-75-0P 700876-21-7P 851677-83-3P
924904-76-7P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP
(Preparation); USES (Uses)

(near IR-absorbing aminium compds. having good alc. solubility and their
uses as light stabilizers)

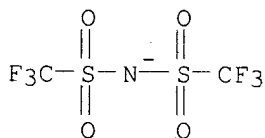
RN 536741-75-0 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-
[4-(dibutylamino)phenyl]-, salt with 1,1,1-trifluoro-N-
[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 98837-98-0

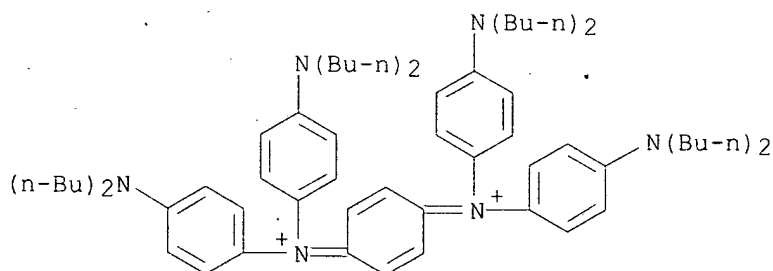
CMF C2 F6 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



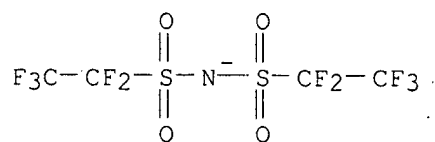
RN 700876-21-7 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-
[4-(dibutylamino)phenyl]-, salt with 1,1,2,2,2-pentafluoro-N-
[(pentafluoroethyl)sulfonyl]ethanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 129318-46-3

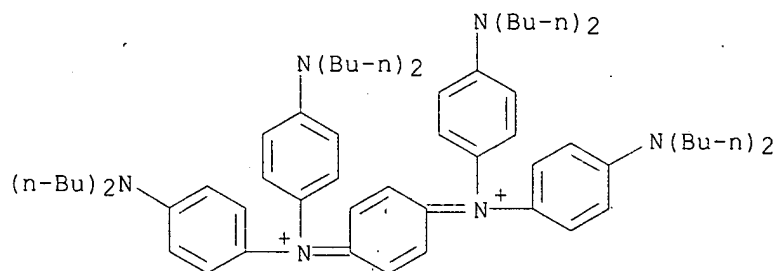
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CM 2

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CMF C62 H92 N6



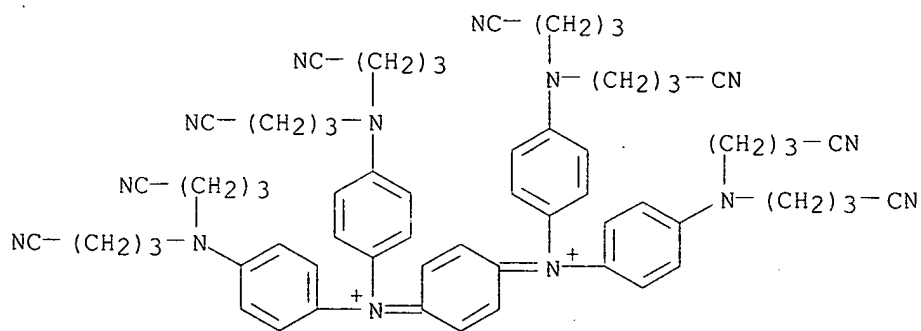
RN 851677-83-3 HCAPLUS

CN 2,5-Cyclohexadiene-1,4-diaminium, N1,N1,N4,N4-tetrakis[4-[bis(3-cyanopropyl)amino]phenyl]-, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 253267-43-5

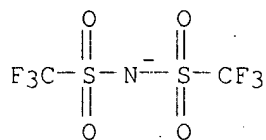
CMF C62 H68 N14



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



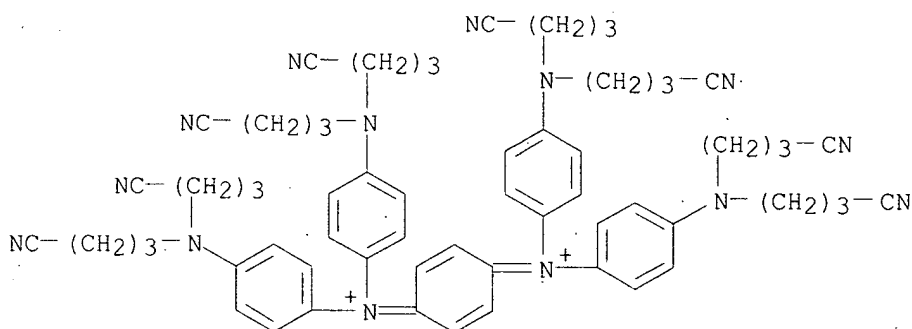
RN 924904-76-7 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(3-cyanopropyl)amino]-N-[4-bis(3-cyanopropyl)amino]phenyl]-, salt with 1,1,2,2,2-pentafluoro-N-[(1,1,2,2,2-pentafluoroethyl)sulfonyl]ethanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 253267-43-5

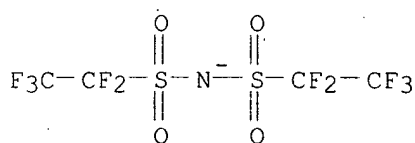
CMF C62 H68 N14



CM 2

CRN 129318-46-3

CMF C4 F10 N 04 S2



L86 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:705903 HCAPLUS

DN 145:155750

TI Near-IR-absorbing coatings and laminates using them with excellent visible light transmittance and heat and light resistance

IN Kato, Shunichi; Fujisaki, Yuko; Yoshinari, Tomo; Tokutome, Kazuto

PA Toyo Ink Mfg. Co., Ltd., Japan; Toppan Printing Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 55 pp.

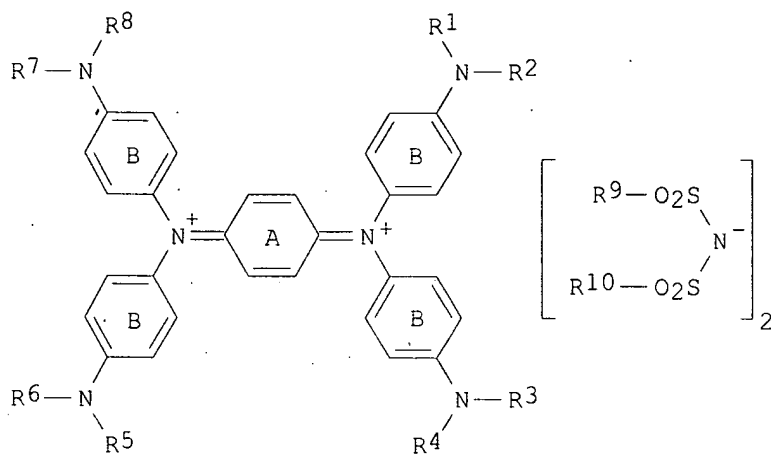
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006188653	A	20060720	JP 2005-297257	20051012
PRAI	JP 2004-357992	A	20041210		
OS	MARPAT 145:155750				
GI					



AB The coatings, useful for optical filters for plasma display panels, contain copolymers (A) bearing cycloalkyl-containing monomer units, diimmonium compds. I [B: R1-8 = H, OH (un)substituted alkyl, cycloalkyl, etc.; ring A and B may have substituent], and optionally phthalocyanines (C) and/or dithiol-metal complexes (D), cyanine compds. (E), and UV absorbers (E) and/or hindered amine light stabilizers (F).

IT 536741-75-0 700876-23-9 700876-26-2
899446-19-6

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(near-IR-absorbing coatings for optical filters with good visible light transmittance and heat and light resistance)

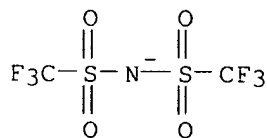
RN 536741-75-0 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-[4-(dibutylamino)phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

CM 1

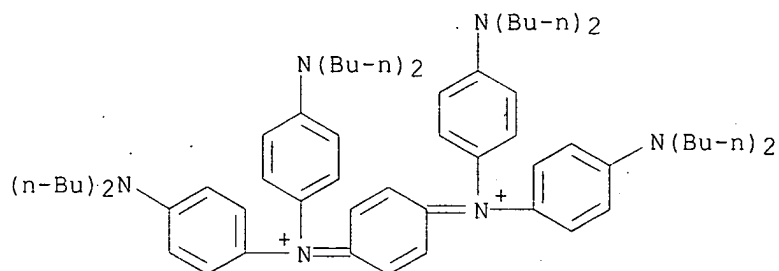
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CMF C2 F6 N O4 S2



CM 2

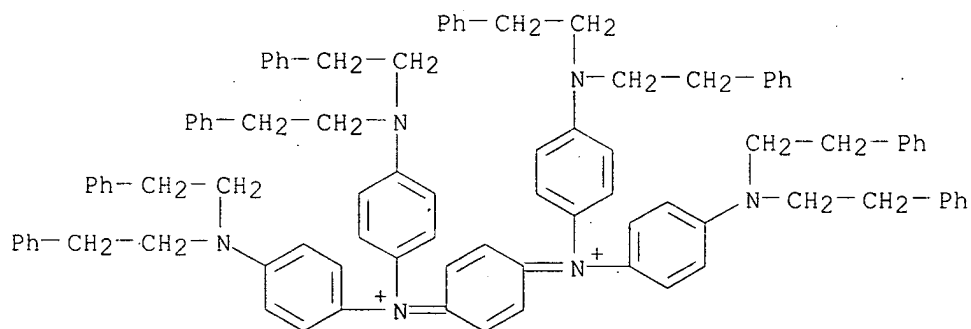
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CMF C62 H92 N6



RN 700876-23-9 HCAPLUS
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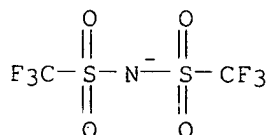
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CRN 700876-22-8
CMF C94 H92 N6



CM 2

CRN 98837-98-0
CMF C2 F6 N O4 S2



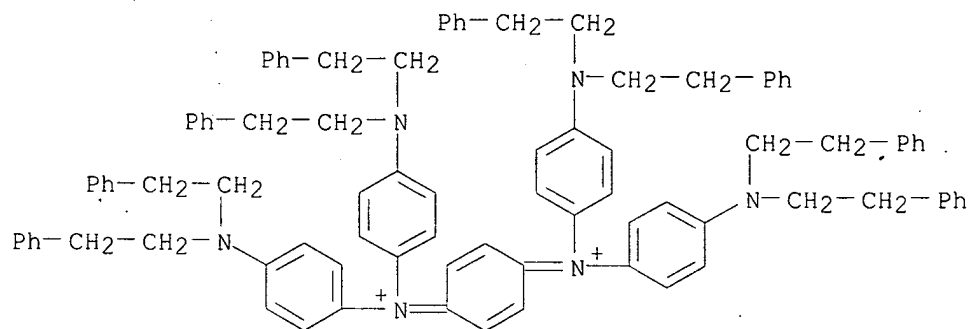
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(9CI) (CA INDEX NAME)

CM 1

CRN 700876-22-8

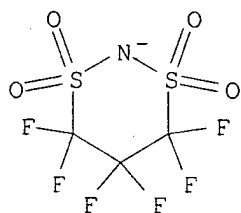
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CM 2

CRN 146063-77-6

CMF C3 F6 N O4 S2



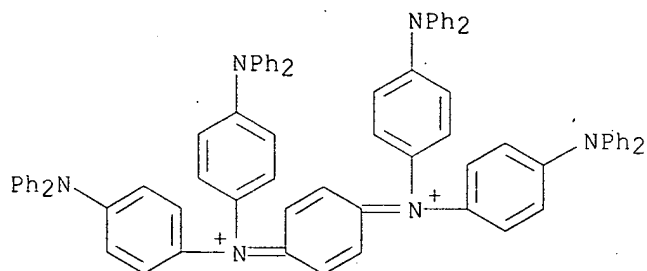
RN 899446-19-6 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(diphenylamino)-N-[4-(diphenylamino)phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 899446-18-5

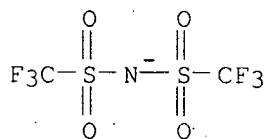
CMF C78 H60 N6



CM 2

CRN 98837-98-0

CMF C2 F6 N O4 S2



L86 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:672651 HCAPLUS

DN 143:183224

TI Optical filter and display using the same

IN Nakatsugawa, Yuji

PA Japan

SO U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005163958	A1	20050728	US 2004-972086	20041022
	JP 2005148283	A	20050609	JP 2003-383685	20031113
	JP 2005301191	A	20051027	JP 2004-142382	20040512
	JP 3935894	B2	20070627		
PRAI	JP 2003-383685	A	20031113		
	JP 2003-403851	A	20031202		
	JP 2004-74119	A	20040316		

OS MARPAT 143:183224

AB The present invention provides an optical filter possessing excellent near IR shielding properties. The optical filter has a laminate structure comprising at least a transparent substrate and a near IR absorptive layer, which is formed of an acrylic resin containing a near IR absorptive colorant capable of absorbing a near IR radiation, stacked on top of each other. The acrylic resin has a birefringence value of 0 (zero) to 15 nm.

IT 536741-75-0, CIR 1085 860440-95-5 860458-08-8

RL: TEM (Technical or engineered material use); USES (Uses)
(colorant; optical filter and display containing)

RN 536741-75-0 HCAPLUS

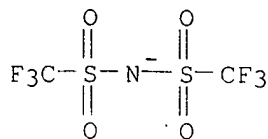
CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-

[4-(dibutylamino)phenyl]-, salt with 1,1,1-trifluoro-N-
[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (CA INDEX NAME)

CM 1

CRN 98837-98-0

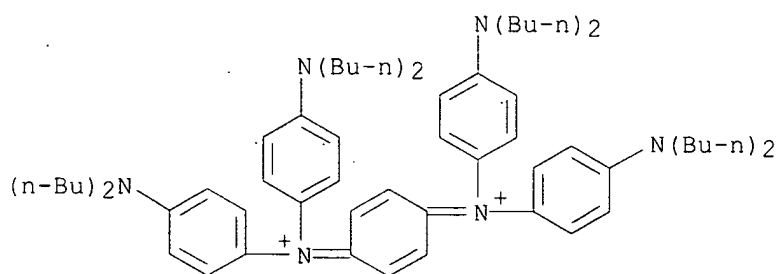
CMF C2 F6 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



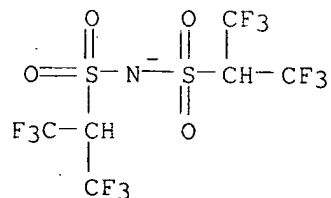
RN 860440-95-5 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-(dibutylamino)-N-
[4-(dibutylamino)phenyl]-, salt with 2,2,2-trifluoro-1-(trifluoromethyl)-N-
[[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]sulfonyl]ethanesulfonamide
(1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 219545-64-9

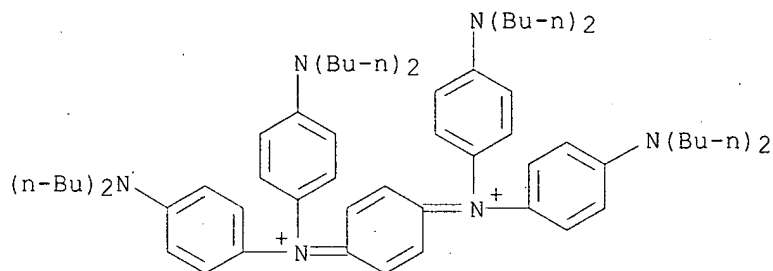
CMF C6 H2 F12 N O4 S2



CM 2

CRN 47911-98-8

CMF C62 H92 N6



RN 860458-08-8 HCAPLUS

CN Benzenaminium, N,N'-2,5-cyclohexadiene-1,4-diylidenebis[4-[bis(ethylphenyl)amino]-N-[4-[bis(ethylphenyl)amino]phenyl]-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:2) (9CI) (CA INDEX NAME)

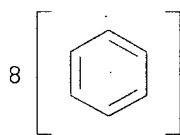
CM 1

CRN 860458-07-7

CMF C94 H92 N6

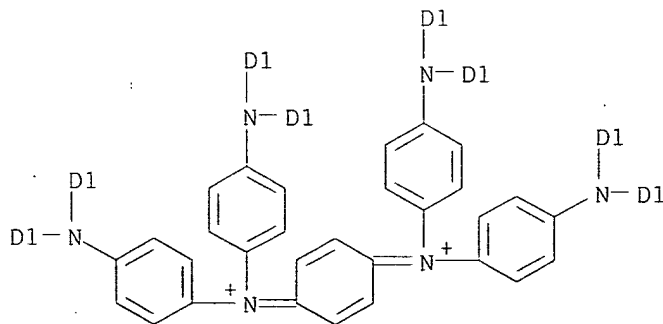
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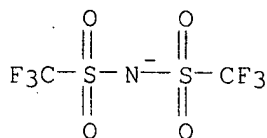
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PAGE 2-A



CM 2

CRN 98837-98-0
CMF C2 F6 N 04 S2



=> fil reg

FILE 'REGISTRY' ENTERED AT 16:22:42 ON 27 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3
DICTIONARY FILE UPDATES: 26 NOV 2007 HIGHEST RN 955995-34-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

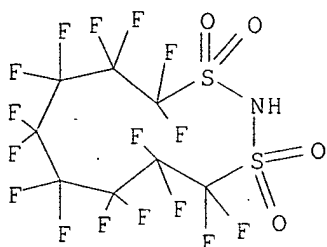
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

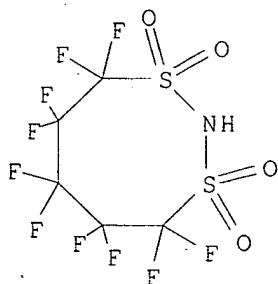
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L87 ANSWER 1 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 952795-72-1 REGISTRY
ED Entered STN: 09 Nov 2007
CN 1,3-Dithia-2-azacycloundecane, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-
hexadecafluoro-, 1,1,3,3-tetraoxide (CA INDEX NAME)
MF C8 H F16 N 04 S2
CI COM
SR CA



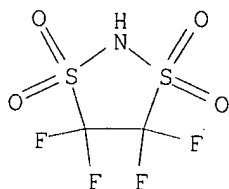
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L87 ANSWER 2 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 952795-71-0 REGISTRY
 ED Entered STN: 09 Nov 2007
 CN 2H,4H-1,3,2-Dithiazocine, 4,4,5,5,6,6,7,7,8,8-decafluorotetrahydro-,
 1,1,3,3-tetraoxide (CA INDEX NAME)
 MF C5 H F10 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L87 ANSWER 3 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 750646-08-3 REGISTRY
 ED Entered STN: 24 Sep 2004
 CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, erbium(3+)
 salt (9CI) (CA INDEX NAME)
 MF C2 H F4 N O4 S2 . 1/3 Er
 SR CA
 LC STN Files: CA, CAPLUS
 CRN (84246-32-2)

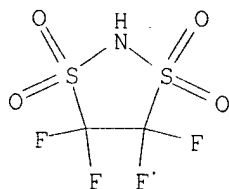


● 1/3 Er(III)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:246085

L87 ANSWER 4 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 750646-07-2 REGISTRY
ED Entered STN: 24 Sep 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide,
neodymium(3+) salt (9CI) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/3 Nd
SR CA
LC STN Files: CA, CAPLUS
CRN (84246-32-2)

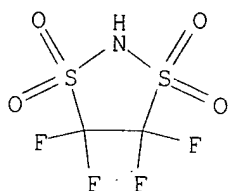


● 1/3 Nd(III)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:246085

L87 ANSWER 5 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 750646-06-1 REGISTRY
ED Entered STN: 24 Sep 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide,
holmium(3+) salt (9CI) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/3 Ho
SR CA
LC STN Files: CA, CAPLUS
CRN (84246-32-2)

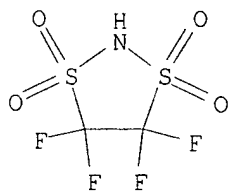


● 1/3 Ho(III)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:246085

L87 ANSWER 6 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 750646-05-0 REGISTRY
ED Entered STN: 24 Sep 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide,
europium(3+) salt (9CI) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/3 Eu
SR CA
LC STN Files: CA, CAPLUS
CRN (84246-32-2)

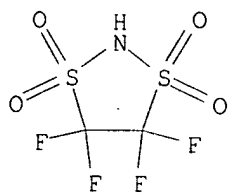


● 1/3 Eu(III)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:246085

L87 ANSWER 7 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 689282-80-2 REGISTRY
ED Entered STN: 04 Jun 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide,
lanthanum(3+) salt (3:1) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/3 La
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (84246-32-2)

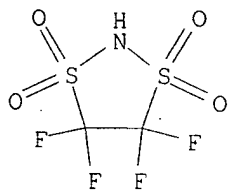


● 1/3 La(III)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:409404

L87 ANSWER 8 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 689282-79-9 REGISTRY
ED Entered STN: 04 Jun 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, calcium
salt (2:1) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/2 Ca
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (84246-32-2)

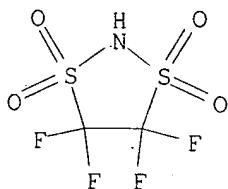


● 1/2 Ca

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:409404

L87 ANSWER 9 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 689282-78-8 REGISTRY
ED Entered STN: 04 Jun 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, magnesium
salt (2:1) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . 1/2 Mg
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (84246-32-2)

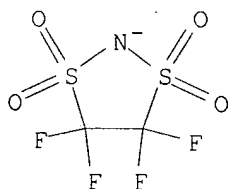


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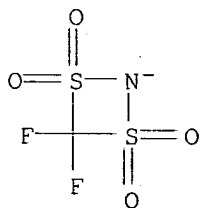
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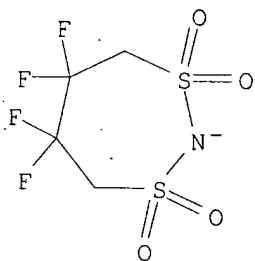
L87 ANSWER 10 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 689282-73-3 REGISTRY
ED Entered STN: 04 Jun 2004
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, ion(1-)
(CA INDEX NAME)
MF C2 F4 N O4 S2
CI COM
SR CA



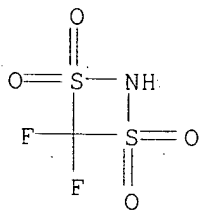
L87 ANSWER 11 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 359689-47-7 REGISTRY
ED Entered STN: 01 Oct 2001
CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide, ion(1-) (CA
INDEX NAME)
MF C F2 N O4 S2
CI COM
SR CA



L87 ANSWER 12 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 219545-66-1 REGISTRY
 ED Entered STN: 09 Feb 1999
 CN 1,3,2-Dithiazepine, 5,5,6,6-tetrafluorotetrahydro-, 1,1,3,3-tetraoxide,
 ion(1-) (9CI) (CA INDEX NAME)
 MF C4 H4 F4 N O4 S2
 CI COM
 SR CA



L87 ANSWER 13 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 196205-99-9 REGISTRY
 ED Entered STN: 28 Oct 1997
 CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide (CA INDEX NAME)
 MF C H F2 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



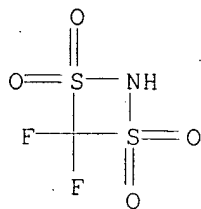
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:262705

L87 ANSWER 14 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 196205-98-8 REGISTRY
 ED Entered STN: 28 Oct 1997
 CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide, lithium salt
 (1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide, lithium salt
 (9CI)
 MF C H F2 N O4 S2 . Li
 SR CA

LC STN Files: CA, CAPLUS, USPATFULL
CRN (196205-99-9)



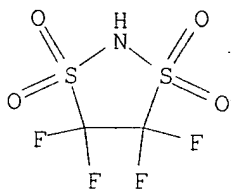
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:472165

REFERENCE 2: 127:262705

L87 ANSWER 15 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 190007-67-1 REGISTRY
ED Entered STN: 18 Jun 1997
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, rubidium salt (9CI) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . Rb
SR CA
LC STN Files: CA, CAPLUS
CRN (84246-32-2)



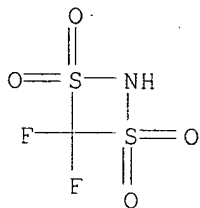
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:5033

L87 ANSWER 16 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 190007-66-0 REGISTRY
ED Entered STN: 18 Jun 1997
CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide, potassium salt (9CI) (CA INDEX NAME)
MF C H F2 N O4 S2 . K

SR CA
LC STN Files: CA, CAPLUS
CRN (196205-99-9)

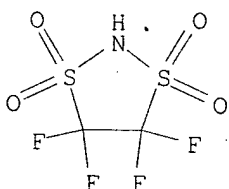


● K

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:5033

L87 ANSWER 17 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 190007-65-9 REGISTRY
ED Entered STN: 18 Jun 1997
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, ammonium
salt (9CI) (CA INDEX NAME)
MF C2 H F4 N O4 S2 . H3 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (84246-32-2)



● NH3

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

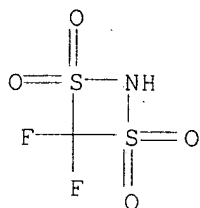
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REFERENCE 2: 127:262705

REFERENCE 3: 127:5033

L87 ANSWER 18 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 190007-64-8 REGISTRY
ED Entered STN: 18 Jun 1997

CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,1,3,3-tetraoxide, ammonium salt
(9CI) (CA INDEX NAME)
MF C H F2 N O4 S2 . H3 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (196205-99-9)



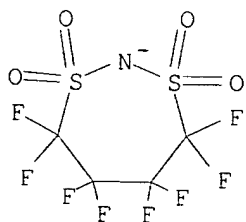
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2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:262705

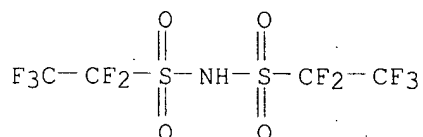
REFERENCE 2: 127:5033

L87 ANSWER 19 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 173274-77-6 REGISTRY
ED Entered STN: 16 Feb 1996
CN 1,3,2-Dithiazepine, 4,4,5,5,6,6,7,7-octafluorotetrahydro-,
1,1,3,3-tetraoxide, ion(1-) (9CI) (CA INDEX NAME)
MF C4 F8 N O4 S2
CI COM
SR CA



L87 ANSWER 20 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 152894-10-5 REGISTRY
ED Entered STN: 10 Feb 1994
CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(1,1,2,2,2-pentafluoroethyl)sulfonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(pentafluoroethyl)sulfonyl]- (9CI)
OTHER NAMES:
CN Bis(pentafluoroethanesulfonyl)amine

CN Bis(pentafluoroethanesulfonyl)imide
 CN Bis(pentafluoroethylsulfonyl)imide
 MF C4 H F10 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST,
 CSCHEM, TOXCENTER, USPAT2, USPATFULL
 Other Sources: TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

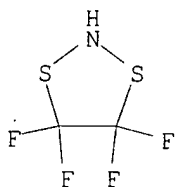


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 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 44 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:34426
 REFERENCE 2: 146:392994
 REFERENCE 3: 146:206097
 REFERENCE 4: 145:339130
 REFERENCE 5: 144:450706
 REFERENCE 6: 144:338234
 REFERENCE 7: 144:224358
 REFERENCE 8: 144:192124
 REFERENCE 9: 144:171901
 REFERENCE 10: 143:389788

L87 ANSWER 21 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 150648-23-0 REGISTRY
 ED Entered STN: 14 Oct 1993
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 MF C2 H F4 N S2
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT



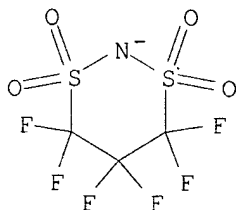
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REFERENCE 2: 119:202772

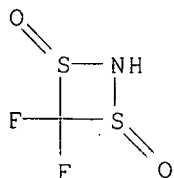
L87 ANSWER 22 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 146063-77-6 REGISTRY
ED Entered STN: 19 Feb 1993
CN 4H-1,3,2-Dithiazine, 4,4,5,5,6,6-hexafluorodihydro-, 1,1,3,3-tetraoxide,
ion(1-) (9CI) (CA INDEX NAME)
MF C3 F6 N O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:337861

L87 ANSWER 23 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 132564-72-8 REGISTRY
ED Entered STN: 15 Mar 1991
CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,3-dioxide, cis- (9CI) (CA INDEX
NAME)
MF C H F2 N O2 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS
(*File contains numerically searchable property data)

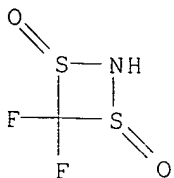


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:28660

L87 ANSWER 24 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 132564-71-7 REGISTRY
ED Entered STN: 15 Mar 1991
CN 1,3,2-Dithiazetidine, 4,4-difluoro-, 1,3-dioxide, trans- (9CI) (CA INDEX NAME)
MF C H F2 N O2 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS
(*File contains numerically searchable property data)



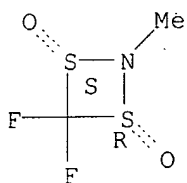
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:28660

L87 ANSWER 25 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 132564-70-6 REGISTRY
ED Entered STN: 15 Mar 1991
CN 1,3,2-Dithiazetidine, 4,4-difluoro-2-methyl-, 1,3-dioxide, cis- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C2 H3 F2 N O2 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Relative stereochemistry.



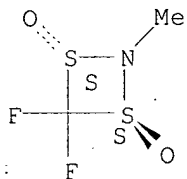
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:28660

L87 ANSWER 26 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 132564-69-3 REGISTRY
ED Entered STN: 15 Mar 1991
CN 1,3,2-Dithiazetidine, 4,4-difluoro-2-methyl-, 1,3-dioxide, trans- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C2 H3 F2 N O2 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Relative stereochemistry.

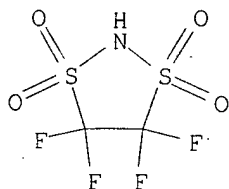


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:28660

L87 ANSWER 27 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 119229-98-0 REGISTRY
ED Entered STN: 24 Feb 1989
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, lithium
salt (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,2-Dithiazolidine, 4,4,5,5-tetrafluoro-, 1,1,3,3-tetraoxide, lithium
salt (9CI)
MF C2 H F4 N O4 S2 . Li
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (84246-32-2)

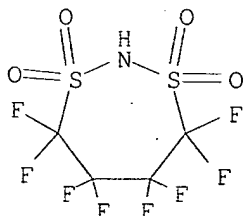


● Li

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:472165
REFERENCE 2: 147:430243
REFERENCE 3: 147:409802
REFERENCE 4: 147:409800
REFERENCE 5: 145:418670
REFERENCE 6: 140:409404
REFERENCE 7: 128:50726
REFERENCE 8: 127:262705
REFERENCE 9: 110:98805

L87 ANSWER 28 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN
RN 84246-30-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3,2-Dithiazepine, 4,4,5,5,6,6,7,7-octafluorotetrahydro-,
1,1,3,3-tetraoxide (9CI) (CA INDEX NAME)
MF C4 H F8 N O4 S2
CI COM
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:217154

REFERENCE 2: 98:55080

L87 ANSWER 29 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN

RN 84246-29-7 REGISTRY

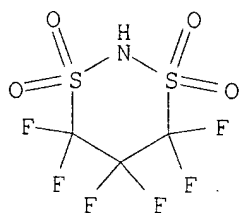
ED Entered STN: 16 Nov 1984

CN 4H-1,3,2-Dithiazine, 4,4,5,5,6,6-hexafluorodihydro-, 1,1,3,3-tetraoxide
(9CI) (CA INDEX NAME)

MF C3 H F6 N O4 S2

CI COM

LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, USPAT2,
USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)

16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:486161

REFERENCE 2: 147:389070

REFERENCE 3: 147:322615

REFERENCE 4: 145:345345

REFERENCE 5: 145:17796

REFERENCE 6: 144:53176

REFERENCE 7: 143:356594

REFERENCE 8: 143:50714

REFERENCE 9: 141:39455

REFERENCE 10: 139:69391

L87 ANSWER 30 OF 30 REGISTRY COPYRIGHT 2007 ACS on STN

RN 82113-65-3 REGISTRY

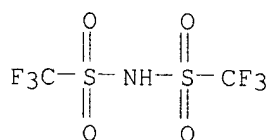
ED Entered STN: 16 Nov 1984

CN Methanesulfonamide, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]- (CA
INDEX NAME)

OTHER NAMES:

CN 1,1,1-Trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonimide

CN Bis(trifluoromethanesulfonyl)amine
 CN Bis(trifluoromethanesulfonyl)imide
 CN Bis(trifluoromethylsulfonyl)amine
 CN Bis(trifluoromethylsulfonyl)imide
 CN Triflic imide
 CN Triflimide
 DR 858717-00-7
 MF C2 H F6 N O4 S2
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

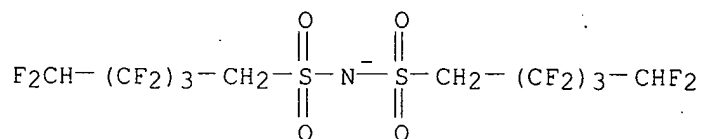
404 REFERENCES IN FILE CA (1907 TO DATE)
 38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 405 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:486161
 REFERENCE 2: 147:428900
 REFERENCE 3: 147:414951
 REFERENCE 4: 147:406243
 REFERENCE 5: 147:365705
 REFERENCE 6: 147:365385
 REFERENCE 7: 147:365188
 REFERENCE 8: 147:365182
 REFERENCE 9: 147:365037
 REFERENCE 10: 147:324346

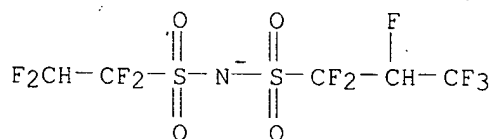
=> => d ide can tot

L89 ANSWER 1 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 934298-54-1 REGISTRY
 ED Entered STN: 04 May 2007
 CN 1-Pentanesulfonamide, 2,2,3,3,4,4,5,5-octafluoro-N-[(2,2,3,3,4,4,5,5-octafluoropentyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF C10 H6 F16 N O4 S2
 CI COM

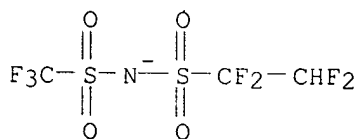
SR CA



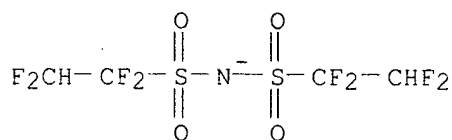
L89 ANSWER 2 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 919299-11-9 REGISTRY
 ED Entered STN: 05 Feb 2007
 CN 1-Propanesulfonamide, 1,1,2,3,3,3-hexafluoro-N-[(1,1,2,2-tetrafluoroethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF C5 H2 F10 N O4 S2
 CI COM
 SR CA



L89 ANSWER 3 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 919299-01-7 REGISTRY
 ED Entered STN: 05 Feb 2007
 CN Ethanesulfonamide, 1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF C3 H F7 N O4 S2
 CI COM
 SR CA



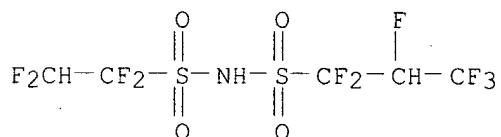
L89 ANSWER 4 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 916331-38-9 REGISTRY
 ED Entered STN: 27 Dec 2006
 CN Ethanesulfonamide, 1,1,2,2-tetrafluoro-N-[(1,1,2,2-tetrafluoroethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF C4 H2 F8 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

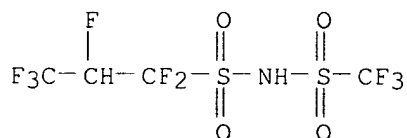
REFERENCE 1: 146:484256

L89 ANSWER 5 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 916201-23-5 REGISTRY
 ED Entered STN: 21 Dec 2006
 CN 1-Propanesulfonamide, 1,1,2,3,3,3-hexafluoro-N-[(1,1,2,2-tetrafluoroethyl)sulfonyl]- (CA INDEX NAME)
 MF C5 H3 F10 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

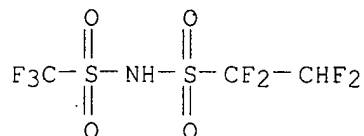
L89 ANSWER 6 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 916201-22-4 REGISTRY
 ED Entered STN: 21 Dec 2006
 CN 1-Propanesulfonamide, 1,1,2,3,3,3-hexafluoro-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF C4 H2 F9 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

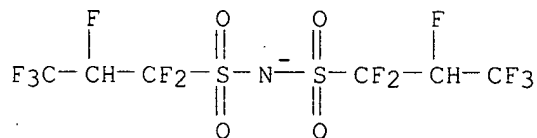
L89 ANSWER 7 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 916201-21-3 REGISTRY
 ED Entered STN: 21 Dec 2006
 CN Ethanesulfonamide, 1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]- (CA

INDEX NAME)
MF C3 H2 F7 N O4 S2
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 8 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 915796-38-2 REGISTRY
ED Entered STN: 18 Dec 2006
CN 1-Propanesulfonamide, 1,1,2,3,3,3-hexafluoro-N-[(1,1,2,3,3,3-hexafluoropropyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
MF C6 H2 F12 N O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

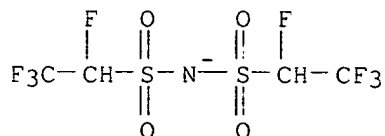


2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:484256

REFERENCE 2: 146:9871

L89 ANSWER 9 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 915796-37-1 REGISTRY
ED Entered STN: 18 Dec 2006
CN Ethanesulfonamide, 1,2,2,2-tetrafluoro-N-[(1,2,2,2-tetrafluoroethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
MF C4 H2 F8 N O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

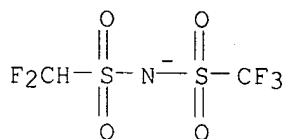


1 REFERENCES IN FILE CA (1907 TO DATE)

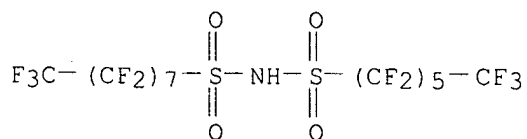
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:9871

L89 ANSWER 10 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 904930-26-3 REGISTRY
 ED Entered STN: 28 Aug 2006
 CN Methanesulfonamide, N-[(difluoromethyl)sulfonyl]-1,1,1-trifluoro-, ion(1-)
 (CA INDEX NAME)
 MF C2 H F5 N O4 S2
 CI COM
 SR CA



L89 ANSWER 11 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 890720-30-6 REGISTRY
 ED Entered STN: 06 Jul 2006
 CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-N-
 [(tridecafluorohexyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C14 H F30 N O4 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

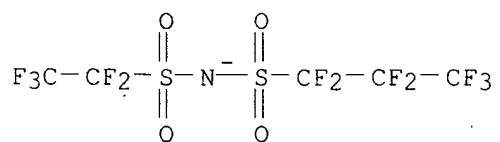


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

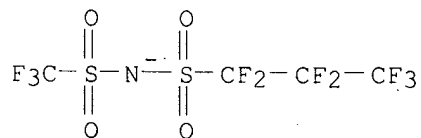
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:55991

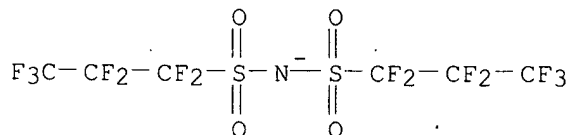
L89 ANSWER 12 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 880873-50-7 REGISTRY
 ED Entered STN: 18 Apr 2006
 CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-
 [(pentafluoroethyl)sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)
 MF C5 F12 N O4 S2
 CI COM
 SR CA



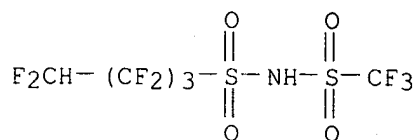
L89 ANSWER 13 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 880873-48-3 REGISTRY
 ED Entered STN: 18 Apr 2006
 CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-
 [(trifluoromethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF **C4 F10 N O4 S2**
 CI COM
 SR CA



L89 ANSWER 14 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 850870-11-0 REGISTRY
 ED Entered STN: 23 May 2005
 CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-
 [(heptafluoropropyl)sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)
 MF **C6 F14 N O4 S2**
 CI COM
 SR CA

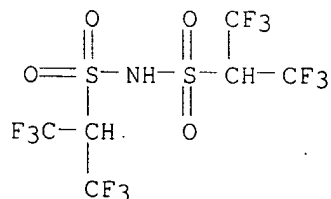


L89 ANSWER 15 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 848463-23-0 REGISTRY
 ED Entered STN: 14 Apr 2005
 CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4-octafluoro-N-
 [(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF **C5 H2 F11 N O4 S2**
 CI COM
 SR CA



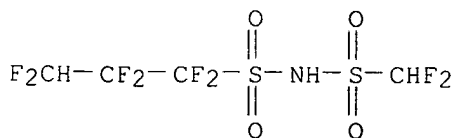
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 16 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 792893-13-1 REGISTRY
 ED Entered STN: 06 Dec 2004
 CN 2-Propanesulfonamide, 1,1,1,3,3,3-hexafluoro-N-[[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]sulfonyl]- (CA INDEX NAME)
 MF C6 H3 F12 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

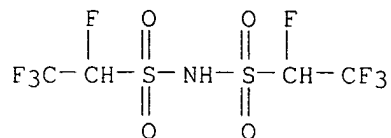
L89 ANSWER 17 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 788146-07-6 REGISTRY
 ED Entered STN: 25 Nov 2004
 CN 1-Propanesulfonamide, N-[(difluoromethyl)sulfonyl]-1,1,2,2,3,3-hexafluoro- (CA INDEX NAME)
 MF C4 H3 F8 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

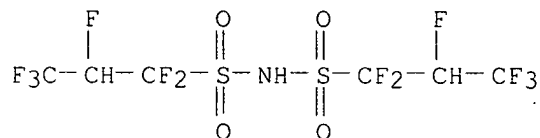
L89 ANSWER 18 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 786630-51-1 REGISTRY
 ED Entered STN: 23 Nov 2004
 CN Ethanesulfonamide, 1,2,2,2-tetrafluoro-N-[(1,2,2,2-

tetrafluoroethyl)sulfonyl]- (CA INDEX NAME)
 MF **C4 H3 F8 N O4 S2**
 CI COM
 SR CA



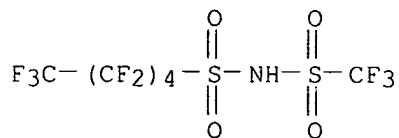
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 19 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 783285-28-9 REGISTRY
 ED Entered STN: 18 Nov 2004
 CN 1-Propanesulfonamide, 1,1,2,3,3,3-hexafluoro-N-[(1,1,2,3,3,3-hexafluoropropyl)sulfonyl]- (CA INDEX NAME)
 MF **C6 H3 F12 N O4 S2**
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

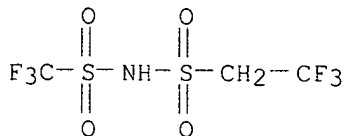
L89 ANSWER 20 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 780739-93-7 REGISTRY
 ED Entered STN: 15 Nov 2004
 CN 1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF **C6 H F14 N O4 S2**
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

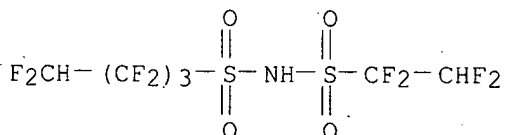
L89 ANSWER 21 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 773038-47-4 REGISTRY
 ED Entered STN: 31 Oct 2004
 CN Ethanesulfonamide, 2,2,2-trifluoro-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF C3 H3 F6 N O4 S2
 CI COM
 SR CA



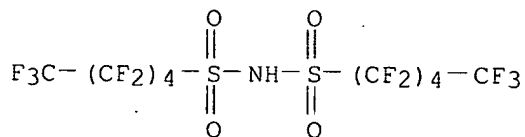
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 22 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 758674-33-8 REGISTRY
 ED Entered STN: 08 Oct 2004
 CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4-octafluoro-N-[(1,1,2,2-tetrafluoroethyl)sulfonyl]- (CA INDEX NAME)
 MF C6 H3 F12 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 23 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 752232-72-7 REGISTRY
 ED Entered STN: 27 Sep 2004
 CN 1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-[(undecafluoropentyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C10 H F22 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

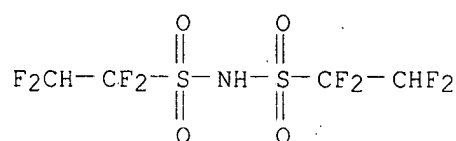


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

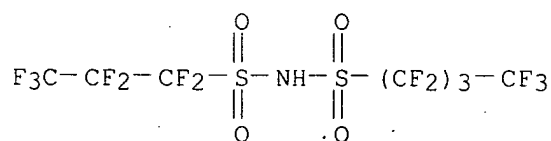
REFERENCE 1: 141:248790

L89 ANSWER 24 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 746586-23-2 REGISTRY
ED Entered STN: 17 Sep 2004
CN Ethanesulfonamide, 1,1,2,2-tetrafluoro-N-[(1,1,2,2-tetrafluoroethyl)sulfonyl]- (CA INDEX NAME)
MF C4 H3 F8 N O4 S2
CI COM
SR CA



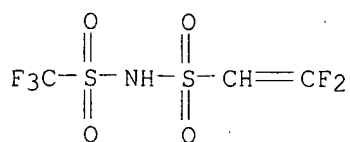
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 25 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 741659-19-8 REGISTRY
ED Entered STN: 09 Sep 2004
CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[(heptafluoropropyl)sulfonyl]- (9CI) (CA INDEX NAME)
MF C7 H F16 N O4 S2
CI COM
SR CA



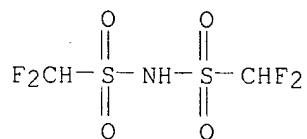
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 26 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 741235-97-2 REGISTRY
ED Entered STN: 08 Sep 2004
CN Ethenesulfonamide, 2,2-difluoro-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
MF C3 H2 F5 N O4 S2
CI COM
SR CA



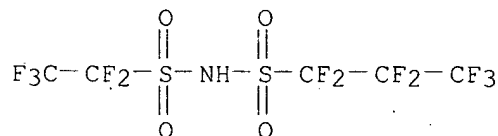
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 27 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 740788-95-8 REGISTRY
 ED Entered STN: 06 Sep 2004
 CN Methanesulfonamide, N-[(difluoromethyl)sulfonyl]-1,1-difluoro- (CA INDEX NAME)
 MF C2 H3 F4 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

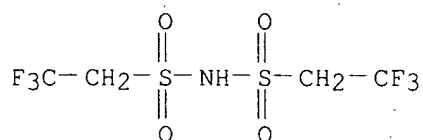
L89 ANSWER 28 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 732972-73-5 REGISTRY
 ED Entered STN: 26 Aug 2004
 CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-[(pentafluoroethyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C5 H F12 N O4 S2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

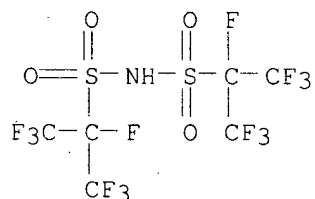
L89 ANSWER 29 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 728861-83-4 REGISTRY
 ED Entered STN: 19 Aug 2004
 CN Ethanesulfonamide, 2,2,2-trifluoro-N-[(2,2,2-trifluoroethyl)sulfonyl]- (CA INDEX NAME)
 MF C4 H5 F6 N O4 S2

CI COM
SR CA



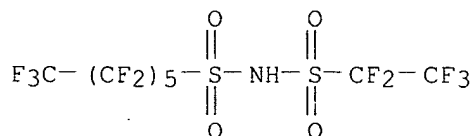
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 30 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 717820-43-4 REGISTRY
ED Entered STN: 27 Jul 2004
CN 2-Propanesulfonamide, 1,1,1,2,3,3,3-heptafluoro-N-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]sulfonyl]- (CA INDEX NAME)
MF C6 H F14 N O4 S2
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 31 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 705972-31-2 REGISTRY
ED Entered STN: 08 Jul 2004
CN 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[[pentafluoroethyl]sulfonyl]- (9CI) (CA INDEX NAME)
MF C8 H F18 N O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

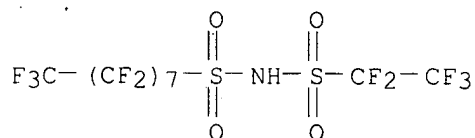


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:63109

L89 ANSWER 32 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 705972-30-1 REGISTRY
 ED Entered STN: 08 Jul 2004
 CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-N-
 [(pentafluoroethyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C10 H F22 N O4 S2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

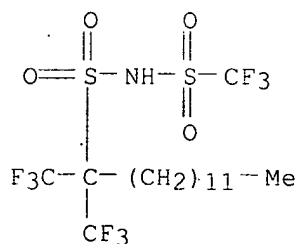


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:63109

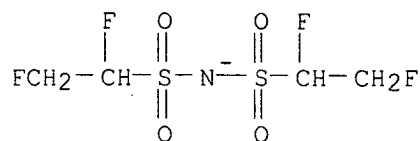
L89 ANSWER 33 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 700801-78-1 REGISTRY
 ED Entered STN: 28 Jun 2004
 CN 2-Tetradecanesulfonamide, 1,1,1-trifluoro-2-(trifluoromethyl)-N-
 [(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF C16 H26 F9 N O4 S2
 CI COM
 SR CA



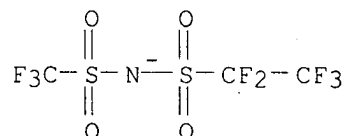
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L89 ANSWER 34 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 671779-78-5 REGISTRY
 ED Entered STN: 06 Apr 2004
 CN Ethanesulfonamide, N-[(1,2-difluoroethyl)sulfonyl]-1,2-difluoro-, ion(1-)
 (CA INDEX NAME)
 MF C4 H6 F4 N O4 S2
 CI COM

SR CA



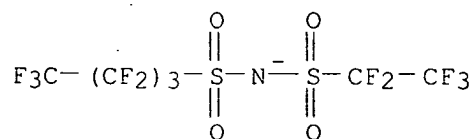
L89 ANSWER 35 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 601520-38-1 REGISTRY
 ED Entered STN: 09 Oct 2003
 CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(trifluoromethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)
 MF C3 F8 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

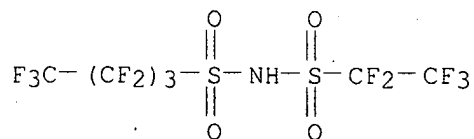
REFERENCE 1: 139:352744

L89 ANSWER 36 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 601520-35-8 REGISTRY
 ED Entered STN: 09 Oct 2003
 CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[(pentafluoroethyl)sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)
 MF C6 F14 N O4 S2
 CI COM
 SR CA



L89 ANSWER 37 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 400608-35-7 REGISTRY
 ED Entered STN: 12 Mar 2002
 CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[(pentafluoroethyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C6 H F14 N O4 S2
 CI COM
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:63109

REFERENCE 2: 137:109397

REFERENCE 3: 136:183967

L89 ANSWER 38 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 357164-85-3 REGISTRY

ED Entered STN: 17 Sep 2001

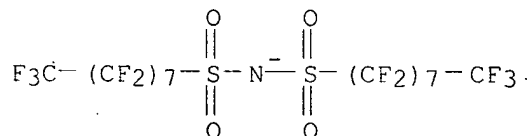
CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-
[(heptadecafluorooctyl)sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)

MF C16 F34 N O4 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:197985

L89 ANSWER 39 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 230627-60-8 REGISTRY

ED Entered STN: 05 Aug 1999

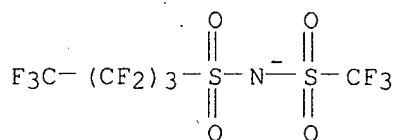
CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-
[(trifluoromethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)

MF C5 F12 N O4 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:334258

REFERENCE 2: 142:453373

REFERENCE 3: 139:44123

REFERENCE 4: 134:63732

REFERENCE 5: 133:349872

L89 ANSWER 40 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 219545-64-9 REGISTRY

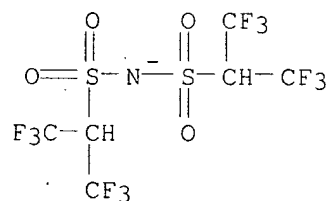
ED Entered STN: 09 Feb 1999

CN Ethanesulfonamide, 2,2,2-trifluoro-1-(trifluoromethyl)-N-[[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)

MF C6 H2 F12 N O4 S2

CI COM

SR CA



L89 ANSWER 41 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 219545-61-6 REGISTRY

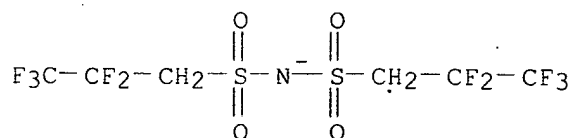
ED Entered STN: 09 Feb 1999

CN 1-Propanesulfonamide, 2,2,3,3,3-pentafluoro-N-[(2,2,3,3,3-pentafluoropropyl)sulfonyl]-, ion(1-) (CA INDEX NAME)

MF C6 H4 F10 N O4 S2

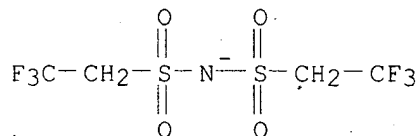
CI COM

SR CA

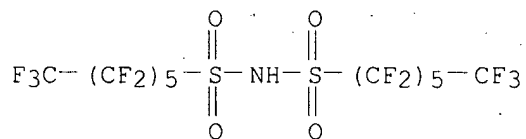


L89 ANSWER 42 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 219545-59-2 REGISTRY
 ED Entered STN: 09 Feb 1999
 CN Ethanesulfonamide, 2,2,2-trifluoro-N-[(2,2,2-trifluoroethyl)sulfonyl]-,
 ion(1-) (CA INDEX NAME)
 MF **C4 H4 F6 N O4 S2**
 CI COM
 SR CA



L89 ANSWER 43 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 213342-85-9 REGISTRY
 ED Entered STN: 28 Oct 1998
 CN 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-
 [(tridecafluorohexyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF **C12 H F26 N O4 S2**
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

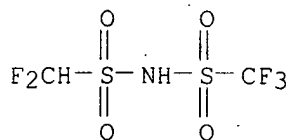


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:55991
 REFERENCE 2: 136:183967
 REFERENCE 3: 129:253999

L89 ANSWER 44 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 192998-64-4 REGISTRY
 ED Entered STN: 22 Aug 1997
 CN Methanesulfonamide, N-[(difluoromethyl)sulfonyl]-1,1,1-trifluoro- (CA
 INDEX NAME)
 MF **C2 H2 F5 N O4 S2**
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



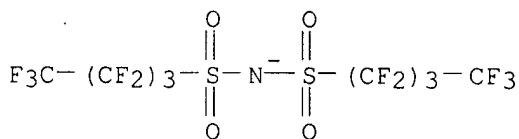
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:184069

REFERENCE 2: 127:136181

L89 ANSWER 45 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 191101-38-9 REGISTRY
ED Entered STN: 11 Jul 1997
CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-
[(nonafluorobutyl)sulfonyl]-, ion(1-) (9CI) (CA INDEX NAME)
MF C8 F18 N O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



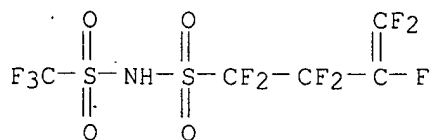
3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:102023

REFERENCE 2: 140:50319

REFERENCE 3: 134:63732

L89 ANSWER 46 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 152894-15-0 REGISTRY
ED Entered STN: 10 Feb 1994
CN 3-Butene-1-sulfonamide, 1,1,2,2,3,4,4-heptafluoro-N-
[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
MF C5 H F10 N O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS

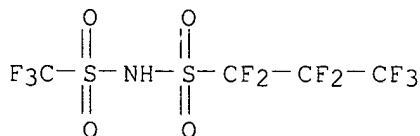


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:106351

L89 ANSWER 47 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 152894-13-8 REGISTRY
ED Entered STN: 10 Feb 1994
CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-
[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
MF C4 H F10 N O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS



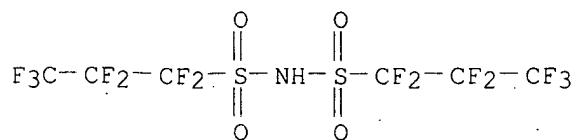
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:322622

REFERENCE 2: 120:106351

L89 ANSWER 48 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 152894-12-7 REGISTRY
ED Entered STN: 10 Feb 1994
CN 1-Propanesulfonamide, 1,1,2,2,3,3,3-heptafluoro-N-
[(heptafluoropropyl)sulfonyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN EF-N 331
MF C6 H F14 N O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:17796

REFERENCE 2: 144:302039

REFERENCE 3: 143:449364

REFERENCE 4: 143:449363

REFERENCE 5: 143:356594

REFERENCE 6: 142:141126

REFERENCE 7: 137:109397

REFERENCE 8: 136:183967

REFERENCE 9: 135:45936

REFERENCE 10: 120:106351

L89 ANSWER 49 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 152894-11-6 REGISTRY

ED Entered STN: 10 Feb 1994

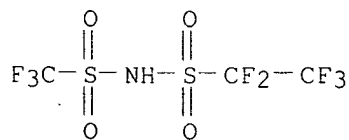
CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(trifluoromethyl)sulfonyl]-
(CA INDEX NAME)

MF C3 H F8 N O4 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:450706

REFERENCE 2: 130:184069

REFERENCE 3: 127:136181

REFERENCE 4: 120:322622

REFERENCE 5: 120:106351

L89 ANSWER 50 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 129318-46-3 REGISTRY

ED Entered STN: 14 Sep 1990

CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(1,1,2,2,2-pentafluoroethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(pentafluoroethyl)sulfonyl]-, ion(1-) (9CI)

OTHER NAMES:

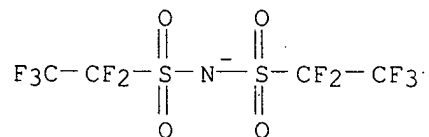
CN Bis(perfluoroethylsulfonyl)imide

MF C4 F10 N O4 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

34 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

34 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:484256

REFERENCE 2: 146:275594

REFERENCE 3: 146:255255

REFERENCE 4: 146:228755

REFERENCE 5: 146:74197

REFERENCE 6: 146:9871

REFERENCE 7: 145:317989

REFERENCE 8: 145:214230

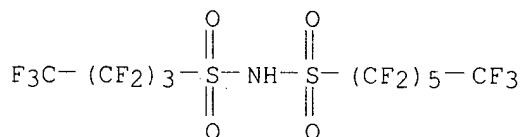
REFERENCE 9: 144:457590

REFERENCE 10: 144:334258

L89 ANSWER 51 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 110874-77-6 REGISTRY

ED Entered STN: 24 Oct 1987
 CN 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-
 [(nonafluorobutyl)sulfonyl]- (9CI) (CA INDEX NAME)
 MF C10 H F22 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

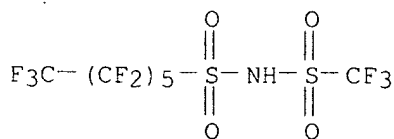


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:55991
 REFERENCE 2: 141:63109
 REFERENCE 3: 135:195341
 REFERENCE 4: 107:217154

L89 ANSWER 52 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 110874-76-5 REGISTRY
 ED Entered STN: 24 Oct 1987
 CN 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-
 [(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 MF C7 H F16 N O4 S2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:463302
 REFERENCE 2: 136:247361
 REFERENCE 3: 120:322622

REFERENCE 4: 119:58171

REFERENCE 5: 107:217154

L89 ANSWER 53 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 98837-98-0 REGISTRY

ED Entered STN: 02 Nov 1985

CN Methanesulfonamide, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]-, ion(1-) (CA INDEX NAME)

OTHER NAMES:

CN Bis(perfluoromethylsulfonyl)imide anion

CN Bis(trifluoromethanesulfonyl)imide anion

CN Bis(trifluoromethylsulfonyl)imide ion

CN Bis(trifluoromethylsulfuryl)imide anion

CN Bistriflylimide anion

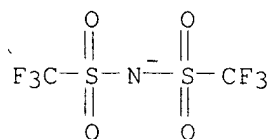
DR 860605-66-9, 760196-85-8, 182505-72-2, 187863-31-6

MF C2 F6 N 04 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, GMELIN*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

101 REFERENCES IN FILE CA (1907 TO DATE)

16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

103 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:479366

REFERENCE 2: 147:475165

REFERENCE 3: 147:464336

REFERENCE 4: 147:387969

REFERENCE 5: 147:142809

REFERENCE 6: 147:103868

REFERENCE 7: 147:33656

REFERENCE 8: 147:11559

REFERENCE 9: 146:484256

REFERENCE 10: 146:320086

L89 ANSWER 54 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 39847-41-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-
[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]- (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-
[(heptadecafluorooctyl)sulfonyl]- (9CI)

OTHER NAMES:

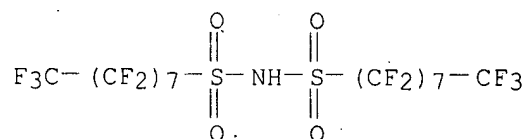
CN Bis(perfluorooctane)sulfonylimide

MF C16 H F34 N O4 S2

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2,
USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:251720

REFERENCE 2: 146:100873

REFERENCE 3: 145:55991

REFERENCE 4: 144:432931

REFERENCE 5: 142:463409

REFERENCE 6: 142:398419

REFERENCE 7: 140:93468

REFERENCE 8: 139:381010

REFERENCE 9: 139:14137

REFERENCE 10: 139:6674

L89 ANSWER 55 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 39847-40-0 REGISTRY

ED Entered STN: 16 Nov 1984

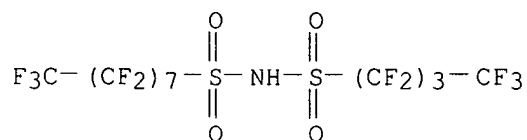
CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-
[(nonafluorobutyl)sulfonyl]- (9CI) (CA INDEX NAME)

MF C12 H F26 N O4 S2

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2,
USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:55991
REFERENCE 2: 143:349951
REFERENCE 3: 141:63109
REFERENCE 4: 137:109397
REFERENCE 5: 136:183967
REFERENCE 6: 129:253999
REFERENCE 7: 78:42811

L89 ANSWER 56 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN

RN 39847-39-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[(nonafluorobutyl)sulfonyl]- (9CI)

OTHER NAMES:

CN Bis(nonafluorobutanesulfonyl)imide

CN Bis(nonafluorobutylsulfonyl)amine

CN Bis(perfluorobutanesulfonyl)imide

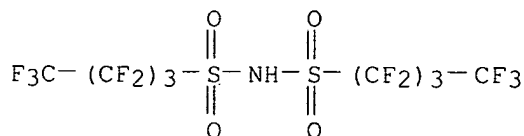
CN Bis(perfluorobutylsulfonyl)amine

MF C8 H F18 N O4 S2

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)



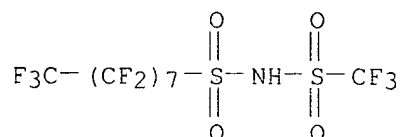
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

48 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

48 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:431325
REFERENCE 2: 146:111235
REFERENCE 3: 145:55991
REFERENCE 4: 144:53344
REFERENCE 5: 143:369979
REFERENCE 6: 143:356594
REFERENCE 7: 143:349951
REFERENCE 8: 142:463302
REFERENCE 9: 142:141126
REFERENCE 10: 141:429656

L89 ANSWER 57 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 39847-38-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-
[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)
MF C9 H F20 N O4 S2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL
(*File contains numerically searchable property data)



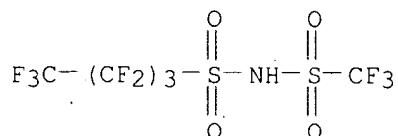
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:63109
REFERENCE 2: 137:109397
REFERENCE 3: 136:247361
REFERENCE 4: 136:183967
REFERENCE 5: 94:176455
REFERENCE 6: 78:42811

L89 ANSWER 58 OF 58 REGISTRY COPYRIGHT 2007 ACS on STN
RN 39847-37-5 REGISTRY

ED Entered STN: 16 Nov 1984
 CN 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-
 [(trifluoromethyl)sulfonyl]- (CA INDEX NAME)
 OTHER NAMES:
 CN (Perfluorobutylsulfonyl)(trifluoromethanesulfonyl)amine
 CN N-[(Trifluoromethyl)sulfonyl]nonafluorobutanesulfonamide
 MF C5 H F12 N O4 S2
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 23 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:171901
 REFERENCE 2: 141:63109
 REFERENCE 3: 139:157388
 REFERENCE 4: 138:109647
 REFERENCE 5: 137:109397
 REFERENCE 6: 136:386879
 REFERENCE 7: 136:247361
 REFERENCE 8: 136:183967
 REFERENCE 9: 133:61325
 REFERENCE 10: 132:196673

=> d his

(FILE 'HOME' ENTERED AT 15:44:44 ON 27 NOV 2007)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:45:01 ON 27 NOV 2007

L1 1 S US20060073407/PN OR (US2005-535671# OR WO2003-JP14642 OR JP20
 E YAMANOBE/AU
 L2 11 S E47,E54,E66
 E SUSUMU/AU
 L3 5 S E47
 E TAMURA/AU

L4 2 S E3
E TAMURA M/AU
L5 591 S E3,E4,E19
E TAMURA NAME/AU
L6 93 S E4
E MASAAKI/AU
L7 2 S E3
E YAMAGUCHI/AU
L8 3 S E3
E YAMAGUCHI NAME/AU
L9 85 S E4
E YAMAGUCHI Y/AU
L10 828 S E3,E4
E YAMAGUCHI YO/AU
L11 51 S E13
E YOJI/AU
L12 1 S E3
E YAMAMOTO/AU
L13 5 S E3
E YAMAMOTO H/AU
L14 1548 S E3-E7
E YAMAMOTO HI/AU
L15 544 S E29,E30
E YAMAMOTO NAME/AU
L16 186 S E4
E HIDEO/AU
L17 3 S E3
E J CARLIT/CO
E JAP CARLIT/CO
E JAPAN CARLIT/CO
L18 771 S E1-E5
E BACK E1
E BACK E1
E JAPAN CARLIT/CO
E E5+ALL
L19 780 S E2-E5/CO,PA,CS
E JAPAN CARLIT/PA,CS
L20 752 S E5-E22
E JAPAN CAR/PA,CS
L21 737 S E26-E36
E NIPPON CARIT/PA,CS
L22 12 S E5-E12
SEL RN L1

FILE 'REGISTRY' ENTERED AT 15:51:07 ON 27 NOV 2007

L23 19 S E1-E19
L24 11 S L23 AND (N AND S AND F AND O)/ELS
L25 2 S L24 AND CCS/CI
L26 9 S L24 NOT L25
L27 4 S 98837-98-0 OR 129318-46-3 OR 146063-77-6 OR 84246-29-7
L28 360 S (NSC2S OR NSC3S OR NSC4S OR NSC5S OR NSC6S OR NSC7S OR NSC8S
L29 13 S NSCS/ES
L30 10 S L29 AND F/ELS
L31 9 S L30 NOT NC5/ES
L32 230 S L28 AND F/ELS
L33 228 S L32 NOT L27
L34 123 S L32 NOT (146063-77-6 OR 84246-29-7)/CRN
L35 51 S L34 AND 1/NC
L36 37 S L35 AND 1/N AND 2/S
L37 14 S L36 AND (C3HF6NO4S2 OR C3F7NO4S2 OR C9H5F6NO4S2 OR C5HF10NO4S

L38 12 S L37 AND 1/NR
SEL RN 3 9 10
L39 3 S E20-E22
L40 9 S L38 NOT L39
L41 72 S L34 NOT L35
SEL RN L40
L42 132 S E23-E31/CRN
L43 25 S L42 AND L41
L44 47 S L41 NOT L43
L45 9 S L44 AND TRIFLUOROMETHYL
L46 38 S L44 NOT L45
L47 10 S L46 AND (H3N OR HO OR CA OR ER OR EU OR MG OR LI OR ND OR LA
L48 STR
L49 50 S L48 CSS SAM
L50 2604 S L48 CSS FUL
L51 2602 S L50 NOT L27
L52 703 S L50 NOT (98837-98-0 OR 129318-46-3)/CRN
L53 1 S 82113-65-3
L54 507 S L52 NOT 82113-65-3/CRN
L55 1 S 152894-10-5
L56 489 S L54 NOT 152894-10-5/CRN
L57 156 S L56 AND 1/NC
L58 66 S L57 AND 1/N AND 2/S AND 4/O
L59 62 S L58 NOT PMS/CI
L60 60 S L59 NOT (C6/ES OR CL/ELS)
L61 333 S L56 NOT L57
L62 88 S L27,L31,L40,L47,L53,L55,L60
L63 75 S L62 AND 1/NC
L64 13 S L62 NOT L63
L65 2 S 84246-32-2 OR 196205-99-9
L66 76 S L63,L65
SEL RN
L67 2450 S E32-E107/CRN
L68 189 S L61 AND L67
L69 2526 S L62-L68
L70 STR
L71 1 S L70 SAM SUB=L69
L72 2766 S L50,L69
L73 1 S L70 SAM SUB=L72
L74 28 S L70 FUL SUB=L72
SAV TEMP L72 VERD535A/A
SAV TEMP L74 VERD535B/A
L75 19 S L74 AND C2F6NO4S2
L76 9 S L74 NOT L75

FILE 'HCAPLUS' ENTERED AT 16:19:33 ON 27 NOV 2007

L77 5 S L76
L78 42 S L75
L79 5 S L77 AND L78
L80 2 S L79 AND L1-L22
L81 5 S L79,L80
L82 0 S L81 AND PY<=2002 NOT P/DT
L83 1 S L81 AND (PY<=2002 OR PRY<=2002 OR AY<=2002) AND P/DT
L84 2 S L80,L83

FILE 'USPATFULL' ENTERED AT 16:20:45 ON 27 NOV 2007

L85 2 S L76

FILE 'REGISTRY' ENTERED AT 16:20:57 ON 27 NOV 2007

FILE 'USPATFULL' ENTERED AT 16:21:50 ON 27 NOV 2007

FILE 'HCAPLUS' ENTERED AT 16:21:59 ON 27 NOV 2007

L86 3 S L81 NOT L84

FILE 'REGISTRY' ENTERED AT 16:22:42 ON 27 NOV 2007

L87 30 S L31,L40,L47,L53,L55

L88 247 S L60,L68 NOT L87

L89 58 S L88 AND 1/NC

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